Exons	2767..3180, 3424..3546, 3638..4429, 4528..5130		
Seq. No.	52999	Seq. ID	OJ990817_15.0419.C32
Gene No.	111763	Strand	-
Start	2767	End	5130
Name	OJ990817_15.0419.C32.o2.np	Method	AAT/NAP
Start	2782	End	5112
GI	7486760	Score	744
Exons	2782..2952, 3731..4811, 4849..5112		
GI Descrip.	hypothetical protein F9N11.100 - Arabidopsis thaliana gi|5730135|emb|CAB52469.1| (AL109796) putative protein [Arabidopsis thaliana] gi|7269925|emb|CAB81018.1| (AL161576) putative protein [Arabidopsis thaliana]		
Seq. No.	52999	Seq. ID	OJ990817_15.0419.C32
Gene No.	111764	Strand	-
Start	7398	End	9133
Name	OJ990817_15.0419.C32.o1.tc	Method	TBLASTX:Cress
Start	3866	End	4081
GI	none	Score	159
Exons	3866..4081, 3927..4079		
Seq. No.	52999	Seq. ID	OJ990817_15.0419.C32
Gene No.	111764	Strand	-
Start	7398	End	9133
Name	OJ990817_15.0419.C32.o1.tw	Method	TBLASTX:Wheat
Start	3866	End	4085
GI	none	Score	156
Exons	3866..4084, 3915..4085		
Seq. No.	52999	Seq. ID	OJ990817_15.0419.C32
Gene No.	111764	Strand	-
Start	7398	End	9133
Name	OJ990817_15.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	3887	End	4695
GI	none	Score	147
Exons	3887..4084, 3945..4079, 4199..4360, 4212..4376, 4358..4429, 4378..4536, 4660..4695		
Seq. No.	52999	Seq. ID	OJ990817_15.0419.C32
Gene No.	111764	Strand	-
Start	7398	End	9133
Name	OJ990817_15.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	3965	End	4549
GI	none	Score	131
Exons	3965..4087, 3966..4085, 4193..4360, 4194..4376, 4358..4549, 4381..4548		
Seq. No.	52999	Seq. ID	OJ990817_15.0419.C32
Gene No.	111764	Strand	-
Start	7398	End	9133
Name	OJ990817_15.0419.C32.o3.np	Method	AAT/NAP
Start	7398	End	8998
GI	4887742	Score	220
Exons	7398..7480, 8640..8998		
GI Descrip.	(AC006533) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	52999	Seq. ID	OJ990817_15.0419.C32
Gene No.	111764	Strand	-
Start	7398	End	9133
Name	OJ990817_15.0419.C32.o3.gs	Method	GENSCAN
Start	8615	End	9133
GI	none	Score	.51
Exons	8615..9133		

Seq. No.	53000	Seq. ID	OJ990817_15.0419.C35
Gene No.	111765	Strand	-
Start	1721	End	2360
Name	OJ990817_15.0419.C35.o1.gs	Method	GENSCAN
Start	1721	End	2200
GI	none	Score	.92
Exons	1721..2200		

Seq. No.	53000	Seq. ID	OJ990817_15.0419.C35
Gene No.	111765	Strand	-
Start	1721	End	2360
Name	OJ990817_15.0419.C35.o1.np	Method	AAT/NAP
Start	1769	End	2360
GI	1362019	Score	95
Exons	1769..1982, 2137..2360		
GI Descrip.	CCHH finger protein 6 - Arabidopsis thaliana gi|790683|gb|AAA87302.1| (L39649) zinc finger protein [Arabidopsis thaliana]		

Seq. No.	53001	Seq. ID	OJ990817_15.0419.C36
Gene No.	111766	Strand	+
Start	3631	End	7768
Name	OJ990817_15.0419.C36.o2.gs	Method	GENSCAN
Start	3631	End	7768
GI	none	Score	.69
Exons	3631..3728, 4658..4758, 4793..5613, 5618..5877, 5879..5972, 6091..6597, 6616..6801, 7063..7363, 7421..7768		

Seq. No.	53002	Seq. ID	OJ990917_11.0421.C4
Gene No.	111767	Strand	+
Start	1630	End	8438
Name	OJ990917_11.0421.C4.o1.gs	Method	GENSCAN
Start	1630	End	8438
GI	none	Score	.63
Exons	1630..1692, 3369..3522, 4808..5019, 6065..6208, 6415..6507, 6791..6935, 7871..8017, 8368..8438		

Seq. No.	53002	Seq. ID	OJ990917_11.0421.C4
Gene No.	111767	Strand	+
Start	1630	End	8438
Name	OJ990917_11.0421.C4.o1.np	Method	AAT/NAP
Start	4804	End	7039
GI	5732016	Score	552
Exons	4804..5019, 5891..5977, 6065..6208, 6415..6507, 6791..7039		
GI Descrip.	(L47355) chorimate mutase [Arabidopsis thaliana] gi|5824345|emb|CAB54519.1| (AJ242648) chorismate mutase [Arabidopsis thaliana]		

Seq. No.	53002	Seq. ID	OJ990917_11.0421.C4

Gene No.	111768	Strand	-
Start	10689	End	12287
Name	OJ990917_11.0421.C4.o2.gs	Method	GENSCAN
Start	10689	End	12287
GI	none	Score	.81
Exons	10689..11553, 11684..11841, 12045..12287		

Seq. No.	53002	Seq. ID	OJ990917_11.0421.C4
Gene No.	111768	Strand	-
Start	10689	End	12287
Name	OJ990917_11.0421.C4.o2.np	Method	AAT/NAP
Start	10692	End	12257
GI	3169179	Score	585
Exons	10692..11553, 11684..11825, 12017..12118, 12161..12257		
GI Descrip.	(AC004401) similar to hookless1 (HLS1) [Arabidopsis thaliana]		

Seq. No.	53002	Seq. ID	OJ990917_11.0421.C4
Gene No.	111769	Strand	-
Start	14034	End	15185
Name	OJ990917_11.0421.C4.o1.tm	Method	TBLASTX:Maize
Start	4831	End	7071
GI	none	Score	145
Exons	4831..5019, 5881..5979, 5883..5978, 5891..5980, 6062..6208, 6064..6210, 6065..6199, 6407..6490, 6409..6489, 6413..6496, 6417..6509, 6418..6507, 6785..6907, 6788..6904, 6911..7042, 6940..6999, 6951..7043, 6958..7071		

Seq. No.	53002	Seq. ID	OJ990917_11.0421.C4
Gene No.	111769	Strand	-
Start	14034	End	15185
Name	OJ990917_11.0421.C4.o3.gs	Method	GENSCAN
Start	14034	End	15185
GI	none	Score	.71
Exons	14034..14231, 15177..15185		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111770	Strand	+
Start	166	End	1289
Name	OJ990917_11.0421.C5.o1.gp	Method	AAT/GAP
Start	166	End	744
GI	16490_1.R1084	Score	698
Exons	166..221, 327..511, 604..744		
GI Descrip.	'4584525/emb|CAB40756.1| 7.0e-38 (AL049607) protein phosphatase 2C-like protein [Arabidopsis thaliana]'		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111770	Strand	+
Start	166	End	1289
Name	OJ990917_11.0421.C5.o1.np	Method	AAT/NAP
Start	166	End	516
GI	7488279	Score	180
Exons	166..221, 327..516		
GI Descrip.	protein phosphatase 2C homolog F11C18.60 - Arabidopsis thaliana gi|4584525|emb|CAB40756.1| (AL049607) protein phosphatase 2C-like protein [Arabidopsis thaliana] gi|7270089|emb|CAB79904.1| (AL161579) protein phosphatase 2C-like protein [Arabidopsis thaliana]		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111770	Strand	+
Start	166	End	1289
Name	OJ990917_11.0421.C5.o1.gs	Method	GENSCAN
Start	321	End	974
GI	none	Score	.48
Exons	321..511, 666..693, 837..974		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111770	Strand	+
Start	166	End	1289
Name	OJ990917_11.0421.C5.o2.gp	Method	AAT/GAP
Start	780	End	1289
GI	none	Score	976
Exons	780..1289		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111771	Strand	+
Start	3620	End	10106
Name	OJ990917_11.0421.C5.o3.np	Method	AAT/NAP
Start	3604	End	4948
GI	6630699	Score	84
Exons	3604..3626, 4087..4152, 4870..4948		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111771	Strand	+
Start	3620	End	10106
Name	OJ990917_11.0421.C5.o3.gs	Method	GENSCAN
Start	3620	End	9909
GI	none	Score	.54
Exons	3620..3676, 3851..4183, 5079..5283, 6828..6959, 7015..7155, 7737..7876, 8455..8555, 8638..8677, 9436..9507, 9696..9752, 9835..9909		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111771	Strand	+
Start	3620	End	10106
Name	OJ990917_11.0421.C5.o5.np	Method	AAT/NAP
Start	6311	End	9906
GI	3738329	Score	374
Exons	6311..6341, 7726..7876, 8455..8555, 8638..8677, 9436..9507, 9696..9752, 9835..9906		
GI Descrip.	(AC005170) unknown protein [Arabidopsis thaliana]		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111771	Strand	+
Start	3620	End	10106
Name	OJ990917_11.0421.C5.o5.gp	Method	AAT/GAP
Start	9432	End	10106
GI	8327_2.R1084	Score	708
Exons	9432..9507, 9696..9752, 9835..10106		
GI Descrip.	'3738329 4.0e-22 (AC005170) unknown protein [Arabidopsis thaliana]'		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111772	Strand	-
Start	1639	End	4186
Name	OJ990917_11.0421.C5.o3.gp	Method	AAT/GAP
Start	1616	End	2109
GI	24729_1.R1084	Score	976
Exons	1616..2109		
GI Descrip.	'2190550 5.0e-38 (AC001229) ESTs gb_T45673,gb_N37512 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111772	Strand	-
Start	1639	End	4186
Name	OJ990917_11.0421.C5.o2.gs	Method	GENSCAN
Start	1639	End	3074
GI	none	Score	.97
Exons	1639..2403, 2487..2586, 2664..2710, 3054..3074		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111772	Strand	-
Start	1639	End	4186
Name	OJ990917_11.0421.C5.o2.np	Method	AAT/NAP
Start	1648	End	3817
GI	2190550	Score	1026
Exons	1648..2403, 2487..2586, 2664..2710, 3054..3100, 3787..3817		
GI Descrip.	(AC001229) ESTs gb|T45673,gb|N37512 come from this gene. [Arabidopsis thaliana]		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111772	Strand	-
Start	1639	End	4186
Name	OJ990917_11.0421.C5.o4.gp	Method	AAT/GAP
Start	2497	End	4186
GI	LIB3479-007-Q6-K1-D1	Score	740
Exons	2497..2586, 2664..2710, 3054..3100, 3787..3852, 4007..4186		
GI Descrip.	'2190550 6.0e-22 (AC001229) ESTs gb_T45673,gb_N37512 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111773	Strand	-
Start	5088	End	5264
Name	OJ990917_11.0421.C5.o4.np	Method	AAT/NAP
Start	5088	End	5264
GI	5922620	Score	78
Exons	5088..5264		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111774	Strand	-
Start	10544	End	10651
Name	OJ990917_11.0421.C5.o3.ts	Method	TBLASTX:Soybean
Start	6	End	506

GI	none	Score	75
Exons	6..44, 167..211, 168..218, 326..391, 327..392, 379..438, 383..445, 384..443, 390..506		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111774	Strand	-
Start	10544	End	10651
Name	OJ990917_11.0421.C5.o2.tm	Method	TBLASTX:Maize
Start	109	End	506
GI	none	Score	83
Exons	109..222, 166..213, 167..226, 167..226, 317..502, 327..506, 327..506		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111774	Strand	-
Start	10544	End	10651
Name	OJ990917_11.0421.C5.o3.tc	Method	TBLASTX:Cress
Start	167	End	445
GI	none	Score	84
Exons	167..241, 168..245, 317..445, 321..443		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111774	Strand	-
Start	10544	End	10651
Name	OJ990917_11.0421.C5.o2.tc	Method	TBLASTX:Cress
Start	1651	End	2067
GI	none	Score	107
Exons	1651..1770, 1676..1756, 1825..2067, 1903..2061		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111774	Strand	-
Start	10544	End	10651
Name	OJ990917_11.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	1657	End	3823
GI	none	Score	134
Exons	1657..1770, 1667..1756, 1667..1867, 1876..2016, 1877..2020, 1894..2022, 2020..2061, 2059..2172, 2059..2406, 2063..2404, 2221..2406, 2484..2549, 2487..2525, 2491..2550, 2521..2607, 2522..2584, 2523..2588, 2663..2713, 2664..2714, 2665..2709, 3051..3101, 3052..3102, 3785..3823, 3785..3820		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111774	Strand	-
Start	10544	End	10651
Name	OJ990917_11.0421.C5.o1.ts	Method	TBLASTX:Soybean
Start	1879	End	3110
GI	none	Score	140
Exons	1879..2220, 1903..2172, 1961..2221, 2215..2406, 2216..2401, 2482..2526, 2484..2537, 2523..2588, 2530..2589, 2657..2713, 3051..3110		

Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111774	Strand	-
Start	10544	End	10651
Name	OJ990917_11.0421.C5.o1.tc	Method	TBLASTX:Cress
Start	2167	End	3110
GI	none	Score	61

Exons	2167..2220, 2168..2221, 2215..2406, 2216..2401, 2521..2619, 2526..2588, 2657..2713, 3051..3110		
Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111774	Strand	-
Start	10544	End	10651
Name	OJ990917_11.0421.C5.o3.tm	Method	TBLASTX:Maize
Start	7739	End	9938
GI	none	Score	210
Exons	7739..7876, 7741..7881, 7741..7875, 8454..8555, 8455..8556, 8637..8678, 8639..8680, 9433..9507, 9435..9515, 9435..9506, 9693..9752, 9695..9754, 9695..9751, 9697..9753, 9826..9936, 9832..9936, 9833..9937, 9834..9938		
Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111774	Strand	-
Start	10544	End	10651
Name	OJ990917_11.0421.C5.o2.ts	Method	TBLASTX:Soybean
Start	7802	End	9464
GI	none	Score	81
Exons	7802..7876, 8454..8564, 8455..8565, 8642..8680, 9432..9464		
Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111774	Strand	-
Start	10544	End	10651
Name	OJ990917_11.0421.C5.o4.tc	Method	TBLASTX:Cress
Start	8443	End	9909
GI	none	Score	75
Exons	8443..8547, 8453..8548, 8454..8564, 8455..8565, 8642..8680, 9433..9507, 9435..9506, 9693..9749, 9695..9748, 9834..9899, 9835..9909		
Seq. No.	53003	Seq. ID	OJ990917_11.0421.C5
Gene No.	111774	Strand	-
Start	10544	End	10651
Name	OJ990917_11.0421.C5.o4.gs	Method	GENSCAN
Start	10544	End	10651
GI	none	Score	.94
Exons	10544..10651		
Seq. No.	53004	Seq. ID	OJ990917_11.0421.C6
Gene No.	111775	Strand	+
Start	4220	End	9355
Name	OJ990917_11.0421.C6.o2.gs	Method	GENSCAN
Start	4220	End	9228
GI	none	Score	.98
Exons	4220..5196, 5777..7451, 7547..7764, 8473..8662, 8866..9228		
Seq. No.	53004	Seq. ID	OJ990917_11.0421.C6
Gene No.	111775	Strand	+
Start	4220	End	9355
Name	OJ990917_11.0421.C6.o2.np	Method	AAT/NAP
Start	4256	End	9240
GI	5725443	Score	2296
Exons	4256..5196, 5777..7083, 7111..7451, 7547..7762, 8468..8662, 8866..9240		
GI Descrip.	(AL109787) putative protein [Arabidopsis thaliana]		

Seq. No.	53004	Seq. ID	OJ990917_11.0421.C6
Gene No.	111775	Strand	+
Start	4220	End	9355
Name	OJ990917_11.0421.C6.o2.gp	Method	AAT/GAP
Start	5112	End	6084
GI	701656	Score	719
Exons	5112..5196, 5777..6084		
GI Descrip.	5725443/emb|CAB52452.1| 6.0e-30 (AL109787) putative protein [Arabidopsis thaliana]		

Seq. No.	53004	Seq. ID	OJ990917_11.0421.C6
Gene No.	111775	Strand	+
Start	4220	End	9355
Name	OJ990917_11.0421.C6.o3.gp	Method	AAT/GAP
Start	6215	End	6721
GI	uC-osflcyp109g12b1	Score	993
Exons	6215..6721		
GI Descrip.	'5725443/emb|CAB52452.1| 1.0e-30 (AL109787) putative protein [Arabidopsis thaliana]'		

Seq. No.	53004	Seq. ID	OJ990917_11.0421.C6
Gene No.	111775	Strand	+
Start	4220	End	9355
Name	OJ990917_11.0421.C6.o4.gp	Method	AAT/GAP
Start	8520	End	9355
GI	13446_1.R1084	Score	1104
Exons	8520..8662, 8866..9355		
GI Descrip.	'3393062/emb|CAA76758.1| 5.0e-37 (Y17386) putative In2.1 protein [Triticum aestivum]'		

Seq. No.	53004	Seq. ID	OJ990917_11.0421.C6
Gene No.	111776	Strand	-
Start	1092	End	2532
Name	OJ990917_11.0421.C6.o1.gs	Method	GENSCAN
Start	1092	End	2532
GI	none	Score	.62
Exons	1092..1183, 1407..1539, 1640..1706, 1977..2073, 2508..2532		

Seq. No.	53004	Seq. ID	OJ990917_11.0421.C6
Gene No.	111776	Strand	-
Start	1092	End	2532
Name	OJ990917_11.0421.C6.o1.gp	Method	AAT/GAP
Start	1220	End	2137
GI	49423_1.R1084	Score	696
Exons	1220..1257, 1407..1539, 1640..1706, 1977..2137		
GI Descrip.	'5725443/emb|CAB52452.1| 6.0e-30 (AL109787) putative protein [Arabidopsis thaliana]'		

Seq. No.	53004	Seq. ID	OJ990917_11.0421.C6
Gene No.	111777	Strand	-
Start	2485	End	2597
Name	OJ990917_11.0421.C6.o2.tm	Method	TBLASTX:Maize
Start	1405	End	1702
GI	none	Score	171
Exons	1405..1539, 1406..1543, 1640..1702, 1641..1700		

Seq. No.	53004	Seq. ID	OJ990917_11.0421.C6
Gene No.	111777	Strand	-
Start	2485	End	2597
Name	OJ990917_11.0421.C6.o1.np	Method	AAT/NAP
Start	2485	End	2597
GI	7340884	Score	58
Exons	2485..2597		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	53004	Seq. ID	OJ990917_11.0421.C6
Gene No.	111778	Strand	
Start	6594	End	7019
Name	OJ990917_11.0421.C6.o1.ts	Method	TBLASTX:Soybean
Start	6594	End	7019
GI	none	Score	307
Exons	6594..7019, 6596..6691, 6782..6919, 6994..7008		

Seq. No.	53004	Seq. ID	OJ990917_11.0421.C6
Gene No.	111779	Strand	
Start	7013	End	9329
Name	OJ990917_11.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	7013	End	9329
GI	none	Score	554
Exons	7013..7450, 7014..7457, 7014..7454, 7249..7458, 7544..7762, 7546..7764, 7547..7726, 7575..7766, 8449..8583, 8457..8546, 8468..8602, 8476..8601, 8590..8661, 8591..8662, 8596..8664, 8603..8662, 8860..9075, 8861..8947, 8862..9074, 9120..9239, 9121..9240, 9228..9329, 9260..9310		

Seq. No.	53004	Seq. ID	OJ990917_11.0421.C6
Gene No.	111779	Strand	
Start	7013	End	9329
Name	OJ990917_11.0421.C6.o1.tc	Method	TBLASTX:Cress
Start	7236	End	8946
GI	none	Score	121
Exons	7236..7457, 7543..7707, 7545..7688, 7546..7707, 7547..7708, 8468..8629, 8477..8548, 8590..8661, 8603..8662, 8860..8946, 8862..8945		

Seq. No.	53004	Seq. ID	OJ990917_11.0421.C6
Gene No.	111779	Strand	
Start	7013	End	9329
Name	OJ990917_11.0421.C6.o2.ts	Method	TBLASTX:Soybean
Start	8603	End	9087
GI	none	Score	59
Exons	8603..8662, 8860..9087, 8862..9083		

Seq. No.	53005	Seq. ID	OJ990917_11.0421.C8
Gene No.	111780	Strand	+
Start	1131	End	5412
Name	OJ990917_11.0421.C8.o1.gp	Method	AAT/GAP
Start	1131	End	1552
GI	58598_1.R1084	Score	543
Exons	1131..1331, 1425..1552		
GI Descrip.	'2058310/emb|X79566|EGCCR 1.0e-10 E.gunnii CCR mRNA'		

Seq. No.	53005	Seq. ID	OJ990917_11.0421.C8
Gene No.	111780	Strand	+
Start	1131	End	5412
Name	OJ990917_11.0421.C8.o1.np	Method	AAT/NAP
Start	1167	End	3628
GI	3668115	Score	955
Exons	1167..1331, 1425..1579, 1647..1832, 2228..2583, 3461..3628		
GI Descrip.	(Y15069) cinnamoyl-CoA reductase [Zea mays]		

Seq. No.	53005	Seq. ID	OJ990917_11.0421.C8
Gene No.	111780	Strand	+
Start	1131	End	5412
Name	OJ990917_11.0421.C8.o2.gp	Method	AAT/GAP
Start	2170	End	2515
GI	LIB3433-041-P1-K1-D2	Score	655
Exons	2170..2515		
GI Descrip.	'3668115/emb|CAA75352| 4.0e-33 (Y15069) cinnamoyl-CoA reductase [Zea mays]'		

Seq. No.	53005	Seq. ID	OJ990917_11.0421.C8
Gene No.	111780	Strand	+
Start	1131	End	5412
Name	OJ990917_11.0421.C8.o2.gs	Method	GENSCAN
Start	2300	End	5412
GI	none	Score	.77
Exons	2300..2583, 3461..3620, 5200..5412		

Seq. No.	53005	Seq. ID	OJ990917_11.0421.C8
Gene No.	111780	Strand	+
Start	1131	End	5412
Name	OJ990917_11.0421.C8.o3.gp	Method	AAT/GAP
Start	4112	End	4430
GI	2800669	Score	570
Exons	4112..4430		

Seq. No.	53005	Seq. ID	OJ990917_11.0421.C8
Gene No.	111781	Strand	-
Start	1124	End	3599
Name	OJ990917_11.0421.C8.o1.gs	Method	GENSCAN
Start	1124	End	1756
GI	none	Score	.43
Exons	1124..1756		

Seq. No.	53005	Seq. ID	OJ990917_11.0421.C8
Gene No.	111781	Strand	-
Start	1124	End	3599
Name	OJ990917_11.0421.C8.o1.tm	Method	TBLASTX:Maize
Start	1259	End	3599
GI	none	Score	79
Exons	1259..1324, 1427..1579, 1429..1473, 1534..1605, 1646..1837, 1647..1757, 1800..1832, 2225..2494, 2227..2493, 2492..2569, 2494..2586, 2495..2584, 3458..3592, 3459..3599		

Seq. No.	53005	Seq. ID	OJ990917_11.0421.C8
Gene No.	111781	Strand	-
Start	1124	End	3599
Name	OJ990917_11.0421.C8.o1.tc	Method	TBLASTX:Cress

Start	1259	End	2332
GI	none	Score	82
Exons	1259..1324, 1424..1579, 1429..1479, 1534..1581, 1646..1828, 1647..1757, 1803..1835, 2231..2332		

Seq. No.	53005	Seq. ID	OJ990917_11.0421.C8
Gene No.	111781	Strand	-
Start	1124	End	3599
Name	OJ990917_11.0421.C8.o1.ts	Method	TBLASTX:Soybean
Start	1259	End	3599
GI	none	Score	84
Exons	1259..1324, 1261..1317, 1424..1579, 1429..1479, 1534..1581, 1612..1626, 1646..1837, 1647..1832, 2089..2112, 2225..2494, 2227..2403, 2495..2584, 2497..2589, 3458..3592, 3459..3599		

Seq. No.	53005	Seq. ID	OJ990917_11.0421.C8
Gene No.	111781	Strand	-
Start	1124	End	3599
Name	OJ990917_11.0421.C8.o1.tw	Method	TBLASTX:Wheat
Start	2359	End	3593
GI	none	Score	256
Exons	2359..2586, 2360..2584, 3458..3592, 3459..3593		

Seq. No.	53006	Seq. ID	OJ990527_06.0421.C6
Gene No.	111782	Strand	+
Start	398	End	1065
Name	OJ990527_06.0421.C6.o1.gs	Method	GENSCAN
Start	398	End	1065
GI	none	Score	.52
Exons	398..482, 992..1065		

Seq. No.	53006	Seq. ID	OJ990527_06.0421.C6
Gene No.	111783	Strand	-
Start	1	End	714
Name	OJ990527_06.0421.C6.o1.np	Method	AAT/NAP
Start	1	End	714
GI	7523517	Score	250
Exons	1..49, 217..271, 421..714		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	53007	Seq. ID	OJ990527_06.0421.C9
Gene No.	111784	Strand	-
Start	1	End	1153
Name	OJ990527_06.0421.C9.o1.np	Method	AAT/NAP
Start	1	End	1153
GI	7413555	Score	630
Exons	1..58, 508..916, 1026..1153		
GI Descrip.	(AL162973) protein kinase-like [Arabidopsis thaliana]		

Seq. No.	53007	Seq. ID	OJ990527_06.0421.C9
Gene No.	111784	Strand	-
Start	1	End	1153
Name	OJ990527_06.0421.C9.o1.ts	Method	TBLASTX:Soybean
Start	1	End	1146
GI	none	Score	295
Exons	1..57, 510..917, 526..918, 683..1033, 1021..1146, 1027..1146		

Seq. No.	53007	Seq. ID	OJ990527_06.0421.C9
Gene No.	111784	Strand	-
Start	1	End	1153
Name	OJ990527_06.0421.C9.o1.gs	Method	GENSCAN
Start	15	End	916
GI	none	Score	.82
Exons	15..72, 525..916		

Seq. No.	53007	Seq. ID	OJ990527_06.0421.C9
Gene No.	111784	Strand	-
Start	1	End	1153
Name	OJ990527_06.0421.C9.o1.tm	Method	TBLASTX:Maize
Start	510	End	1146
GI	none	Score	110
Exons	510..917, 525..917, 526..924, 1027..1146		

Seq. No.	53007	Seq. ID	OJ990527_06.0421.C9
Gene No.	111784	Strand	-
Start	1	End	1153
Name	OJ990527_06.0421.C9.o1.tc	Method	TBLASTX:Cress
Start	525	End	1143
GI	none	Score	171
Exons	525..812, 529..813, 831..926, 1030..1143		

Seq. No.	53007	Seq. ID	OJ990527_06.0421.C9
Gene No.	111784	Strand	-
Start	1	End	1153
Name	OJ990527_06.0421.C9.o1.tw	Method	TBLASTX:Wheat
Start	525	End	893
GI	none	Score	155
Exons	525..812, 526..786, 831..893		

Seq. No.	53008	Seq. ID	OJ990527_06.0421.C10
Gene No.	111785	Strand	-
Start	1	End	1185
Name	OJ990527_06.0421.C10.o1.np	Method	AAT/NAP
Start	1	End	1185
GI	4376160	Score	76
Exons	1..301, 1106..1185		
GI Descrip.	(AJ009671) putative kinase [Arabidopsis thaliana]		

Seq. No.	53008	Seq. ID	OJ990527_06.0421.C10
Gene No.	111785	Strand	-
Start	1	End	1185
Name	OJ990527_06.0421.C10.o1.gs	Method	GENSCAN
Start	114	End	301
GI	none	Score	.77
Exons	114..301		

Seq. No.	53009	Seq. ID	OJ990527_06.0421.C12
Gene No.	111786	Strand	-
Start	1	End	863
Name	OJ990527_06.0421.C12.o1.np	Method	AAT/NAP
Start	1	End	863
GI	7489703	Score	76
Exons	1..89, 509..623, 797..863		
GI Descrip.	safener-induced In2.1-like protein - wheat		

gi|3393062|emb|CAA76758.1| (Y17386) putative In2.1 protein [Triticum aestivum]

Seq. No.	53009	Seq. ID	OJ990527_06.0421.C12
Gene No.	111786	Strand	-
Start	1	End	863
Name	OJ990527_06.0421.C12.o1.gp	Method	AAT/GAP
Start	509	End	610
GI	3107173	Score	127
Exons	509..610		
GI Descrip.	3393062/emb|CAA76758.1| 5.0e-37 (Y17386) putative In2.1 protein [Triticum aestivum]		

Seq. No.	53010	Seq. ID	OJ990527_06.0421.C15
Gene No.	111787	Strand	-
Start	164	End	588
Name	OJ990527_06.0421.C15.o1.tm	Method	TBLASTX:Maize
Start	158	End	588
GI	none	Score	209
Exons	158..298, 159..296, 163..297, 384..572, 403..588, 409..558, 410..571, 411..572		

Seq. No.	53010	Seq. ID	OJ990527_06.0421.C15
Gene No.	111787	Strand	-
Start	164	End	588
Name	OJ990527_06.0421.C15.o1.ts	Method	TBLASTX:Soybean
Start	158	End	572
GI	none	Score	182
Exons	158..298, 159..296, 163..297, 165..305, 405..572, 410..571		

Seq. No.	53010	Seq. ID	OJ990527_06.0421.C15
Gene No.	111787	Strand	-
Start	164	End	588
Name	OJ990527_06.0421.C15.o1.gs	Method	GENSCAN
Start	164	End	570
GI	none	Score	.96
Exons	164..297, 409..570		

Seq. No.	53010	Seq. ID	OJ990527_06.0421.C15
Gene No.	111787	Strand	-
Start	164	End	588
Name	OJ990527_06.0421.C15.o1.np	Method	AAT/NAP
Start	185	End	570
GI	7413556	Score	282
Exons	185..297, 409..570		
GI Descrip.	(AL162973) putative protein [Arabidopsis thaliana]		

Seq. No.	53011	Seq. ID	OJ990527_06.0421.C16
Gene No.	111788	Strand	+
Start	1	End	901
Name	OJ990527_06.0421.C16.o1.np	Method	AAT/NAP
Start	1	End	901
GI	7329632	Score	420
Exons	1..48, 249..341, 568..651, 762..901		
GI Descrip.	(AL132970) putative protein [Arabidopsis thaliana]		

Seq. No.	53011	Seq. ID	OJ990527_06.0421.C16

Gene No.	111788	Strand	+
Start	1	End	901
Name	OJ990527_06.0421.C16.o1.tm	Method	TBLASTX:Maize
Start	2	End	871
GI	none	Score	64
Exons	2..46, 3..47, 239..340, 252..341, 254..340, 255..341, 566..652, 567..653, 760..870, 761..871		

Seq. No.	53011	Seq. ID	OJ990527_06.0421.C16
Gene No.	111788	Strand	+
Start	1	End	901
Name	OJ990527_06.0421.C16.o1.ts	Method	TBLASTX:Soybean
Start	238	End	871
GI	none	Score	162
Exons	238..336, 239..337, 251..343, 255..344, 581..652, 582..653, 718..870, 719..871		

Seq. No.	53011	Seq. ID	OJ990527_06.0421.C16
Gene No.	111788	Strand	+
Start	1	End	901
Name	OJ990527_06.0421.C16.o1.gs	Method	GENSCAN
Start	568	End	869
GI	none	Score	.52
Exons	568..651, 762..869		

Seq. No.	53011	Seq. ID	OJ990527_06.0421.C16
Gene No.	111788	Strand	+
Start	1	End	901
Name	OJ990527_06.0421.C16.o1.tw	Method	TBLASTX:Wheat
Start	663	End	872
GI	none	Score	48
Exons	663..701, 743..871, 748..870, 762..872		

Seq. No.	53012	Seq. ID	OJ990527_06.0421.C17
Gene No.	111789	Strand	+
Start	922	End	1329
Name	OJ990527_06.0421.C17.o1.gs	Method	GENSCAN
Start	922	End	1329
GI	none	Score	.4
Exons	922..1329		

Seq. No.	53013	Seq. ID	OJ990527_06.0421.C19
Gene No.	111790	Strand	-
Start	740	End	926
Name	OJ990527_06.0421.C19.o1.gp	Method	AAT/GAP
Start	740	End	926
GI	2427950	Score	301
Exons	740..926		

Seq. No.	53013	Seq. ID	OJ990527_06.0421.C19
Gene No.	111790	Strand	-
Start	740	End	926
Name	OJ990527_06.0421.C19.o1.gs	Method	GENSCAN
Start	750	End	762
GI	none	Score	.82
Exons	750..762		

Seq. No.	53014	Seq. ID	OJ990527_06.0421.C21
Gene No.	111791	Strand	+
Start	1	End	296
Name	OJ990527_06.0421.C21.o1.np	Method	AAT/NAP
Start	1	End	296
GI	4056485	Score	193
Exons	1..296		
GI Descrip.	(AC005896) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53014	Seq. ID	OJ990527_06.0421.C21
Gene No.	111792	Strand	-
Start	373	End	441
Name	OJ990527_06.0421.C21.o1.gs	Method	GENSCAN
Start	373	End	441
GI	none	Score	.72
Exons	373..441		

Seq. No.	53014	Seq. ID	OJ990527_06.0421.C21
Gene No.	111793	Strand	-
Start	350	End	730
Name	OJ990527_06.0421.C21.o1.gp	Method	AAT/GAP
Start	350	End	730
GI	uC-osrocyp026h07a1	Score	697
Exons	350..730		
GI Descrip.	'1352460/sp|P49248|IN21_MAIZE 5.0e-39 IN2-1 PROTEIN >gi_100896_pir__S17743 In2-1 protein - maize >gi_22347_emb_CAA41447_ (X58573) In2-1 [Zea mays]'		

Seq. No.	53015	Seq. ID	OJ990527_06.0421.C26
Gene No.	111794	Strand	+
Start	269	End	416
Name	OJ990527_06.0421.C26.o1.gs	Method	GENSCAN
Start	269	End	416
GI	none	Score	.45
Exons	269..416		

Seq. No.	53015	Seq. ID	OJ990527_06.0421.C26
Gene No.	111795	Strand	
Start	317	End	536
Name	OJ990527_06.0421.C26.o1.tm	Method	TBLASTX:Maize
Start	317	End	536
GI	none	Score	189
Exons	317..535, 318..536		

Seq. No.	53016	Seq. ID	OJ990527_06.0421.C30
Gene No.	111796	Strand	+
Start	1	End	771
Name	OJ990527_06.0421.C30.o1.np	Method	AAT/NAP
Start	1	End	771
GI	7413552	Score	73
Exons	1..175, 275..399, 722..771		
GI Descrip.	(AL162973) putative protein [Arabidopsis thaliana]		

Seq. No.	53016	Seq. ID	OJ990527_06.0421.C30
Gene No.	111796	Strand	+
Start	1	End	771
Name	OJ990527_06.0421.C30.o1.gs	Method	GENSCAN

Start	49	End	545
GI	none	Score	.77
Exons	49..175, 275..397, 488..545		

Seq. No.	53016	Seq. ID	OJ990527_06.0421.C30
Gene No.	111796	Strand	+
Start	1	End	771
Name	OJ990527_06.0421.C30.o1.tm	Method	TBLASTX:Maize
Start	110	End	670
GI	none	Score	61
Exons	110..157, 110..154, 111..176, 142..189, 142..177, 143..178, 257..319, 273..401, 290..391, 291..401, 483..509, 484..510, 508..546, 513..545, 514..546, 628..669, 629..670		

Seq. No.	53016	Seq. ID	OJ990527_06.0421.C30
Gene No.	111796	Strand	+
Start	1	End	771
Name	OJ990527_06.0421.C30.o1.tw	Method	TBLASTX:Wheat
Start	110	End	401
GI	none	Score	101
Exons	110..178, 111..176, 111..176, 112..189, 285..401, 290..397, 291..401		

Seq. No.	53016	Seq. ID	OJ990527_06.0421.C30
Gene No.	111796	Strand	+
Start	1	End	771
Name	OJ990527_06.0421.C30.o1.gp	Method	AAT/GAP
Start	273	End	684
GI	1632338	Score	400
Exons	273..397, 488..545, 623..684		

Seq. No.	53017	Seq. ID	OJ990527_06.0421.C31
Gene No.	111797	Strand	+
Start	278	End	478
Name	OJ990527_06.0421.C31.o1.gs	Method	GENSCAN
Start	278	End	478
GI	none	Score	.41
Exons	278..478		

Seq. No.	53018	Seq. ID	OJ990527_06.0421.C36
Gene No.	111798	Strand	+
Start	1	End	413
Name	OJ990527_06.0421.C36.o1.np	Method	AAT/NAP
Start	1	End	410
GI	7413557	Score	603
Exons	1..410		
GI Descrip.	(AL162973) meiosis specific-like protein [Arabidopsis thaliana]		

Seq. No.	53018	Seq. ID	OJ990527_06.0421.C36
Gene No.	111798	Strand	+
Start	1	End	413
Name	OJ990527_06.0421.C36.o1.gs	Method	GENSCAN
Start	108	End	413
GI	none	Score	.96
Exons	108..413		

Seq. No.	53018	Seq. ID	OJ990527_06.0421.C36

Gene No.	111799	Strand	+
Start	828	End	1062
Name	OJ990527_06.0421.C36.o1.tm	Method	TBLASTX:Maize
Start	1	End	392
GI	none	Score	154
Exons	1..105, 1..99, 3..104, 99..392, 99..392		

Seq. No.	53018	Seq. ID	OJ990527_06.0421.C36
Gene No.	111799	Strand	+
Start	828	End	1062
Name	OJ990527_06.0421.C36.o1.ts	Method	TBLASTX:Soybean
Start	240	End	413
GI	none	Score	240
Exons	240..413, 243..275, 284..412		

Seq. No.	53018	Seq. ID	OJ990527_06.0421.C36
Gene No.	111799	Strand	+
Start	828	End	1062
Name	OJ990527_06.0421.C36.o1.gp	Method	AAT/GAP
Start	828	End	1062
GI	none	Score	459
Exons	828..1062		

Seq. No.	53019	Seq. ID	OJ990407_03.0420.C2
Gene No.	111800	Strand	+
Start	1	End	1930
Name	OJ990407_03.0420.C2.o1.np	Method	AAT/NAP
Start	1	End	792
GI	1075778	Score	140
Exons	1..271, 323..537, 692..792		
GI Descrip.	gramicidin S synthase 2 - Bacillus brevis gi|511490|dbj|BAA06146| (D29676) gramicidin S synthetase 2 [Brevibacillus brevis]		

Seq. No.	53019	Seq. ID	OJ990407_03.0420.C2
Gene No.	111800	Strand	+
Start	1	End	1930
Name	OJ990407_03.0420.C2.o1.gs	Method	GENSCAN
Start	22	End	1417
GI	none	Score	.87
Exons	22..537, 683..1417		

Seq. No.	53019	Seq. ID	OJ990407_03.0420.C2
Gene No.	111800	Strand	+
Start	1	End	1930
Name	OJ990407_03.0420.C2.o2.tm	Method	TBLASTX:Maize
Start	684	End	967
GI	none	Score	278
Exons	684..845, 686..967, 686..922		

Seq. No.	53019	Seq. ID	OJ990407_03.0420.C2
Gene No.	111800	Strand	+
Start	1	End	1930
Name	OJ990407_03.0420.C2.o1.tm	Method	TBLASTX:Maize
Start	1140	End	1930
GI	none	Score	163
Exons	1140..1352, 1147..1407, 1151..1408, 1152..1412, 1678..1758,		

1679..1759, 1825..1923, 1826..1930, 1832..1924

Seq. No.	53020	Seq. ID	OJ990407_03.0420.C3
Gene No.	111801	Strand	+
Start	568	End	888
Name	OJ990407_03.0420.C3.o1.ts	Method	TBLASTX:Soybean
Start	371	End	881
GI	none	Score	76
Exons	371..469, 371..490, 372..482, 556..624, 807..881		

Seq. No.	53020	Seq. ID	OJ990407_03.0420.C3
Gene No.	111801	Strand	+
Start	568	End	888
Name	OJ990407_03.0420.C3.o1.gs	Method	GENSCAN
Start	568	End	888
GI	none	Score	.71
Exons	568..618, 804..888		

Seq. No.	53021	Seq. ID	OJ990407_03.0420.C4
Gene No.	111802	Strand	+
Start	123	End	3224
Name	OJ990407_03.0420.C4.o2.tm	Method	TBLASTX:Maize
Start	101	End	366
GI	none	Score	131
Exons	101..241, 108..230, 127..231, 284..355, 300..365, 301..366		

Seq. No.	53021	Seq. ID	OJ990407_03.0420.C4
Gene No.	111802	Strand	+
Start	123	End	3224
Name	OJ990407_03.0420.C4.o1.ts	Method	TBLASTX:Soybean
Start	108	End	516
GI	5688457	Score	97
Exons	108..209, 128..190, 301..372, 393..506, 403..516		
GI Descrip.	-		

Seq. No.	53021	Seq. ID	OJ990407_03.0420.C4
Gene No.	111802	Strand	+
Start	123	End	3224
Name	OJ990407_03.0420.C4.o1.gs	Method	GENSCAN
Start	123	End	3224
GI	none	Score	.51
Exons	123..226, 348..459, 710..803, 1134..1217, 1726..2099, 2262..3224		

Seq. No.	53021	Seq. ID	OJ990407_03.0420.C4
Gene No.	111802	Strand	+
Start	123	End	3224
Name	OJ990407_03.0420.C4.o1.np	Method	AAT/NAP
Start	1716	End	3221
GI	7363282	Score	2571
Exons	1716..3221		
GI Descrip.	(AP001552) Similar to Arabidopsis thaliana DNA chromosome 2, BAC clone T32F12; putative DnaJ protein. (AC005314) [Oryza sativa]		

Seq. No.	53021	Seq. ID	OJ990407_03.0420.C4
Gene No.	111802	Strand	+
Start	123	End	3224
Name	OJ990407_03.0420.C4.o2.ts	Method	TBLASTX:Soybean

Start	2562	End	2798
GI	none	Score	201
Exons	2562..2759, 2624..2743, 2643..2783, 2759..2797, 2772..2798		

Seq. No.	53021	Seq. ID	OJ990407_03.0420.C4
Gene No.	111802	Strand	+
Start	123	End	3224
Name	OJ990407_03.0420.C4.o1.tm	Method	TBLASTX:Maize
Start	2568	End	3152
GI	none	Score	146
Exons	2568..2744, 2774..2908, 2775..2909, 2940..3041, 3048..3152		

Seq. No.	53021	Seq. ID	OJ990407_03.0420.C4
Gene No.	111802	Strand	+
Start	123	End	3224
Name	OJ990407_03.0420.C4.o1.tw	Method	TBLASTX:Wheat
Start	2568	End	2876
GI	none	Score	142
Exons	2568..2744, 2609..2677, 2659..2697, 2759..2839, 2775..2876		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111803	Strand	+
Start	15282	End	17486
Name	OJ990407_03.0420.C5.o2.np	Method	AAT/NAP
Start	15282	End	17483
GI	7363286	Score	3791
Exons	15282..17483		
GI Descrip.	(AP001552) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F4I10; vegetative storage protein. (AL035525) [Oryza sativa]		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111803	Strand	+
Start	15282	End	17486
Name	OJ990407_03.0420.C5.o4.gs	Method	GENSCAN
Start	15282	End	17486
GI	none	Score	.94
Exons	15282..17486		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111803	Strand	+
Start	15282	End	17486
Name	OJ990407_03.0420.C5.o2.gp	Method	AAT/GAP
Start	16691	End	17010
GI	LIB3432-051-P1-K1-C7	Score	607
Exons	16691..17010		
GI Descrip.	'6006885/gb|AAF00660.1|AC008153_12 2.0e-29 (AC008153) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111804	Strand	+
Start	20944	End	21804
Name	OJ990407_03.0420.C5.o4.np	Method	AAT/NAP
Start	20944	End	21801
GI	7363288	Score	636
Exons	20944..21204, 21700..21801		
GI Descrip.	(AP001552) hypothetical protein [Oryza sativa]		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111804	Strand	+
Start	20944	End	21804
Name	OJ990407_03.0420.C5.o6.gs	Method	GENSCAN
Start	20944	End	21804
GI	none	Score	.88
Exons	20944..21204, 21700..21804		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111805	Strand	+
Start	29731	End	34762
Name	OJ990407_03.0420.C5.o7.np	Method	AAT/NAP
Start	29578	End	30624
GI	7434417	Score	246
Exons	29578..30053, 30492..30624		
GI Descrip.	hypothetical protein T26D22.12 - Arabidopsis thaliana gi|3047096|gb|AAC13608.1| (AF058826) similar to eukaryotic protein kinase domains (Pfam: pkinase.hmm, score: 189.74) [Arabidopsis thaliana]		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111805	Strand	+
Start	29731	End	34762
Name	OJ990407_03.0420.C5.o8.gs	Method	GENSCAN
Start	29731	End	34473
GI	none	Score	.69
Exons	29731..29911, 30406..30562, 30865..30945, 32026..32171, 32620..32711, 32835..32854, 33030..33105, 33499..33573, 33799..33891, 34276..34473		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111805	Strand	+
Start	29731	End	34762
Name	OJ990407_03.0420.C5.o8.np	Method	AAT/NAP
Start	29731	End	32784
GI	5059025	Score	144
Exons	29731..29803, 30178..30326, 32743..32784		
GI Descrip.	(AF110382) 3-hydroxy-3-methylglutaryl-coenzyme A reductase [Oryza sativa]		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111805	Strand	+
Start	29731	End	34762
Name	OJ990407_03.0420.C5.o5.gp	Method	AAT/GAP
Start	31907	End	33900
GI	9810_1.R1084	Score	953
Exons	31907..32025, 32108..32171, 32620..32711, 32835..32941, 33030..33105, 33499..33573, 33799..33900		
GI Descrip.	'4490332/emb|CAB38614.1| 1.0e-44 (AL035656) putative protein [Arabidopsis thaliana]'		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111805	Strand	+
Start	29731	End	34762
Name	OJ990407_03.0420.C5.o9.np	Method	AAT/NAP
Start	31950	End	34470

GI	7363290	Score	1084
Exons	31950..32025, 32108..32171, 32620..32714, 32838..32941, 33030..33105, 33499..33573, 33799..33891, 34276..34470		
GI Descrip.	(AP001552) ESTs C28489(C61317),AU031689(R0560) correspond to a region of the predicted gene.; Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone T9A14; putative protein. (AL035656) [Oryza sativa]		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111805	Strand	+
Start	29731	End	34762
Name	OJ990407_03.0420.C5.o6.gp	Method	AAT/GAP
Start	34275	End	34762
GI	84668_1.R1084	Score	936
Exons	34275..34762		
GI Descrip.	'5123701/emb|CAB45445.1| 2.0e-19 (AL079347) putative protein [Arabidopsis thaliana]'		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111806	Strand	-
Start	1	End	3743
Name	OJ990407_03.0420.C5.o1.np	Method	AAT/NAP
Start	1	End	3743
GI	7363283	Score	5494
Exons	1..1364, 1674..2481, 2797..3743		
GI Descrip.	(AP001552) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F20D10; putative protein. (AL035538) [Oryza sativa]		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111806	Strand	-
Start	1	End	3743
Name	OJ990407_03.0420.C5.o1.gs	Method	GENSCAN
Start	12	End	3743
GI	none	Score	.99
Exons	12..1364, 1674..2481, 2797..3743		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111806	Strand	-
Start	1	End	3743
Name	OJ990407_03.0420.C5.o1.gp	Method	AAT/GAP
Start	126	End	461
GI	2800379	Score	612
Exons	126..461		
GI Descrip.	6056428/gb|AAF02892.1|AC009525_26 9.0e-46 (AC009525) Very similar to cellulose synthase catalytic subunit [Arabidopsis thaliana]		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111807	Strand	-
Start	8494	End	12372
Name	OJ990407_03.0420.C5.o3.gs	Method	GENSCAN
Start	8494	End	12372
GI	none	Score	.49
Exons	8494..8572, 11813..11974, 12350..12372		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111808	Strand	-

Start	18010	End	21298
Name	OJ990407_03.0420.C5.o3.gp	Method	AAT/GAP
Start	18010	End	21298
GI	23462_1.R1084	Score	2502
Exons	18010..18432, 18564..18737, 18819..19010, 19854..20009, 20189..20256, 20976..21298		
GI Descrip.	'481815/pir||S39502 5.0e-56 vegetative storage protein - western balsam poplar x cottonwood >gi_309839 (L20233) vegetative storage protein [Populus trichocarpa x Populus deltoides]'		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111808	Strand	-
Start	18010	End	21298
Name	OJ990407_03.0420.C5.o5.gs	Method	GENSCAN
Start	18241	End	20279
GI	none	Score	.77
Exons	18241..18432, 18570..18737, 18819..19010, 19854..20009, 20250..20279		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111808	Strand	-
Start	18010	End	21298
Name	OJ990407_03.0420.C5.o3.np	Method	AAT/NAP
Start	18244	End	20279
GI	7363287	Score	1167
Exons	18244..18432, 18564..18737, 18819..19010, 19854..20009, 20232..20279		
GI Descrip.	(AP001552) ESTs AU032452(S10068),C23571(S10068) correspond to a region of the predicted gene.; Similar to P.trichocarpa x P. deltoides vegetative storage protein mRNA, 3' end. (L20233) [Oryza sativa]		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111809	Strand	-
Start	23837	End	26557
Name	OJ990407_03.0420.C5.o7.gs	Method	GENSCAN
Start	23837	End	26557
GI	none	Score	.64
Exons	23837..23935, 24632..24661, 24689..24740, 25368..25521, 26470..26557		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111809	Strand	-
Start	23837	End	26557
Name	OJ990407_03.0420.C5.o5.np	Method	AAT/NAP
Start	23840	End	26557
GI	7363289	Score	624
Exons	23840..23935, 24632..24661, 24689..24740, 25368..25521, 26470..26557		
GI Descrip.	(AP001552) hypothetical protein [Oryza sativa]		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o1.tc	Method	TBLASTX:Cress
Start	1	End	969
GI	none	Score	240

Exons	1..240, 3..242, 64..243, 244..354, 246..329, 315..809, 316..762, 339..812, 828..962, 877..969		
Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o1.tm	Method	TBLASTX:Maize
Start	1	End	879
GI	none	Score	1096
Exons	1..879, 3..878		
Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o4.ts	Method	TBLASTX:Soybean
Start	1	End	2384
GI	none	Score	97
Exons	1..129, 6..317, 184..318, 339..473, 343..471, 2259..2384		
Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o2.tw	Method	TBLASTX:Wheat
Start	1	End	366
GI	none	Score	333
Exons	1..366, 3..365		
Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o3.tw	Method	TBLASTX:Wheat
Start	412	End	776
GI	none	Score	414
Exons	412..759, 417..776, 418..759		
Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o1.ts	Method	TBLASTX:Soybean
Start	478	End	1370
GI	none	Score	380
Exons	478..762, 480..893, 765..1349, 850..1323, 1314..1370, 1315..1368		
Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o4.tm	Method	TBLASTX:Maize
Start	885	End	1281
GI	none	Score	160
Exons	885..1076, 889..1077, 1083..1274, 1083..1274, 1084..1281		
Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o1.tw	Method	TBLASTX:Wheat
Start	930	End	1291
GI	none	Score	80

Exons	930..977, 930..1286, 931..1284, 932..1291, 1023..1286		
Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o2.tc	Method	TBLASTX:Cress
Start	972	End	2501
GI	none	Score	137
Exons	972..1091, 1083..1271, 1083..1274, 1084..1281, 1671..1694, 1731..1757, 1884..2246, 1940..2206, 1944..2228, 1960..2247, 2277..2501		
Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o2.tm	Method	TBLASTX:Maize
Start	1671	End	2415
GI	none	Score	245
Exons	1671..1901, 1671..2414, 1672..2415, 2326..2415		
Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o2.ts	Method	TBLASTX:Soybean
Start	1671	End	2222
GI	none	Score	220
Exons	1671..2063, 1671..2057, 1816..2058, 2058..2222, 2059..2220		
Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o5.tw	Method	TBLASTX:Wheat
Start	1731	End	2073
GI	none	Score	69
Exons	1731..1757, 1884..2072, 1978..2073		
Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o7.tc	Method	TBLASTX:Cress
Start	2796	End	3029
GI	none	Score	100
Exons	2796..2876, 2940..3029, 2941..3018		
Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o7.ts	Method	TBLASTX:Soybean
Start	2796	End	3056
GI	none	Score	97
Exons	2796..2879, 2800..2877, 2925..3056, 2941..3030		
Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o3.ts	Method	TBLASTX:Soybean
Start	3216	End	3629

GI	none	Score	345
Exons	3216..3515, 3217..3516, 3531..3629, 3577..3627		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o8.tm	Method	TBLASTX:Maize
Start	9135	End	9621
GI	none	Score	93
Exons	9135..9203, 9237..9272, 9352..9621, 9443..9610		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o3.tm	Method	TBLASTX:Maize
Start	15446	End	17228
GI	none	Score	205
Exons	15446..15667, 15447..15752, 15462..15734, 15588..15785, 15657..15725, 15738..16073, 15843..16151, 15843..16043, 15957..16343, 16085..16351, 16086..16376, 16091..16240, 16146..16370, 16212..16382, 16265..16333, 16353..17228, 16356..16691, 16364..16663, 16434..16664, 16487..16681, 16490..16750, 16557..16736		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o8.ts	Method	TBLASTX:Soybean
Start	15450	End	16667
GI	none	Score	94
Exons	15450..15677, 15597..15701, 15903..16286, 15905..16015, 15906..16058, 16206..16589, 16235..16441, 16508..16666, 16509..16667		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o4.tc	Method	TBLASTX:Cress
Start	15462	End	16958
GI	none	Score	99
Exons	15462..15743, 15648..15737, 15843..16133, 15966..16397, 16257..16835, 16271..16750, 16551..16709, 16575..16820, 16833..16958		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o4.tw	Method	TBLASTX:Wheat
Start	15462	End	16793
GI	none	Score	157
Exons	15462..15761, 15846..16130, 15866..16030, 16011..16397, 16320..16793, 16340..16750, 16614..16733		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o5.ts	Method	TBLASTX:Soybean

Start	16668	End	17186
GI	none	Score	398
Exons	16668..17186, 16895..17092		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o3.tc	Method	TBLASTX:Cress
Start	16986	End	17486
GI	none	Score	163
Exons	16986..17234, 17238..17486, 17279..17485		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o6.tm	Method	TBLASTX:Maize
Start	17232	End	17498
GI	none	Score	291
Exons	17232..17498, 17276..17488		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o6.ts	Method	TBLASTX:Soybean
Start	17232	End	17501
GI	none	Score	320
Exons	17232..17501, 17279..17494		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o7.tm	Method	TBLASTX:Maize
Start	18706	End	19011
GI	none	Score	37
Exons	18706..18738, 18713..18754, 18789..18947, 18816..18947, 18817..18948, 18942..19010, 18943..19011		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o9.tm	Method	TBLASTX:Maize
Start	19912	End	21111
GI	none	Score	131
Exons	19912..20010, 19914..20012, 20186..20269, 20187..20258, 20974..21111, 20976..21101		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-
Start	29216	End	30771
Name	OJ990407_03.0420.C5.o6.np	Method	AAT/NAP
Start	29216	End	30771
GI	7242910	Score	137
Exons	29216..29298, 29367..29684, 30371..30771		
GI Descrip.	(AP001383) hypothetical protein [Oryza sativa]		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111810	Strand	-

Start	29216	End	30771
Name	OJ990407_03.0420.C5.o6.tc	Method	TBLASTX:Cress
Start	29676	End	30521
GI	none	Score	52
Exons	29676..29717, 29801..30028, 30456..30521		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111811	Strand	
Start	32102	End	34701
Name	OJ990407_03.0420.C5.o5.tm	Method	TBLASTX:Maize
Start	32102	End	34701
GI	none	Score	73
Exons	32102..32158, 32107..32160, 32617..32712, 32620..32712, 32621..32713, 32836..32946, 32837..32941, 33024..33107, 33025..33102, 33498..33572, 33499..33576, 33499..33579, 33766..33891, 33797..33898, 33801..33890, 33815..33895, 34269..34472, 34273..34479, 34275..34475, 34600..34638, 34601..34639, 34645..34701, 34645..34692		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111811	Strand	
Start	32102	End	34701
Name	OJ990407_03.0420.C5.o9.ts	Method	TBLASTX:Soybean
Start	32106	End	33113
GI	none	Score	68
Exons	32106..32165, 32107..32157, 32621..32713, 32836..32946, 32837..32941, 33024..33113, 33025..33102		

Seq. No.	53022	Seq. ID	OJ990407_03.0420.C5
Gene No.	111811	Strand	
Start	32102	End	34701
Name	OJ990407_03.0420.C5.o5.tc	Method	TBLASTX:Cress
Start	32107	End	34479
GI	none	Score	71
Exons	32107..32175, 32609..32713, 32837..32944, 32845..32946, 33024..33104, 33025..33102, 33499..33576, 33760..33891, 33801..33890, 34273..34479, 34275..34469		

Seq. No.	53023	Seq. ID	OJ990407_03.0420.C6
Gene No.	111812	Strand	+
Start	520	End	751
Name	OJ990407_03.0420.C6.o1.gp	Method	AAT/GAP
Start	520	End	751
GI	2442551	Score	393
Exons	520..751		

Seq. No.	53023	Seq. ID	OJ990407_03.0420.C6
Gene No.	111812	Strand	+
Start	520	End	751
Name	OJ990407_03.0420.C6.o1.gs	Method	GENSCAN
Start	539	End	751
GI	none	Score	.68
Exons	539..751		

Seq. No.	53023	Seq. ID	OJ990407_03.0420.C6
Gene No.	111812	Strand	+
Start	520	End	751

Name	OJ990407_03.0420.C6.o1.np	Method	AAT/NAP
Start	539	End	751
GI	7363291	Score	361
Exons	539..751		
GI Descrip.	(AP001552) ESTs C74322(E30878),AU082328(E30878) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53024	Seq. ID	OJ990407_03.0420.C7
Gene No.	111813	Strand	+
Start	940	End	4076
Name	OJ990407_03.0420.C7.o1.gp	Method	AAT/GAP
Start	940	End	4076
GI	16953_1.R1084	Score	2363
Exons	940..1114, 2040..2143, 2245..2320, 2850..2933, 3283..4076		
GI Descrip.	'2245131/emb|CAB10552.1| 2.0e-75 (Z97344) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	53024	Seq. ID	OJ990407_03.0420.C7
Gene No.	111813	Strand	+
Start	940	End	4076
Name	OJ990407_03.0420.C7.o1.np	Method	AAT/NAP
Start	983	End	3786
GI	7363292	Score	1401
Exons	983..1114, 2046..2150, 2228..2320, 2850..2933, 3283..3786		
GI Descrip.	(AP001552) ESTs D15336(C0474),C98053(C0474) correspond to a region of the predicted gene.; Similar to Arabidopsis thaliana DNA chromosome 4, ESSA I contig fragment No. 9; hypothetical protein. (Z97344) [Oryza sativa]		

Seq. No.	53024	Seq. ID	OJ990407_03.0420.C7
Gene No.	111813	Strand	+
Start	940	End	4076
Name	OJ990407_03.0420.C7.o1.gs	Method	GENSCAN
Start	986	End	3789
GI	none	Score	.78
Exons	986..1114, 1167..1322, 2211..2320, 2850..2933, 3283..3789		

Seq. No.	53024	Seq. ID	OJ990407_03.0420.C7
Gene No.	111814	Strand	-
Start	8787	End	14649
Name	OJ990407_03.0420.C7.o2.tw	Method	TBLASTX:Wheat
Start	1995	End	2885
GI	none	Score	130
Exons	1995..2138, 2023..2133, 2038..2142, 2039..2143, 2039..2143, 2242..2319, 2243..2320, 2841..2885		

Seq. No.	53024	Seq. ID	OJ990407_03.0420.C7
Gene No.	111814	Strand	-
Start	8787	End	14649
Name	OJ990407_03.0420.C7.o1.ts	Method	TBLASTX:Soybean
Start	2028	End	3744
GI	none	Score	138
Exons	2028..2141, 2045..2134, 2243..2320, 2248..2319, 2841..2924, 3307..3510, 3316..3744, 3354..3740, 3619..3744		

Seq. No.	53024	Seq. ID	OJ990407_03.0420.C7

Gene No.	111814	Strand	-
Start	8787	End	14649
Name	OJ990407_03.0420.C7.o1.tc	Method	TBLASTX:Cress
Start	2033	End	3732
GI	none	Score	114
Exons	2033..2143, 2037..2141, 2267..2320, 2799..2924, 3319..3732, 3322..3429, 3323..3445, 3351..3731		

Seq. No.	53024	Seq. ID	OJ990407_03.0420.C7
Gene No.	111814	Strand	-
Start	8787	End	14649
Name	OJ990407_03.0420.C7.o1.tm	Method	TBLASTX:Maize
Start	2038	End	3847
GI	none	Score	163
Exons	2038..2139, 2039..2143, 2040..2141, 2242..2319, 2243..2320, 2244..2321, 2841..2933, 2848..2931, 2859..2933, 3302..3466, 3302..3475, 3307..3507, 3313..3765, 3351..3764, 3629..3802, 3756..3791, 3800..3847		

Seq. No.	53024	Seq. ID	OJ990407_03.0420.C7
Gene No.	111814	Strand	-
Start	8787	End	14649
Name	OJ990407_03.0420.C7.o1.tw	Method	TBLASTX:Wheat
Start	3426	End	3675
GI	none	Score	243
Exons	3426..3674, 3426..3653, 3427..3675, 3616..3669		

Seq. No.	53024	Seq. ID	OJ990407_03.0420.C7
Gene No.	111814	Strand	-
Start	8787	End	14649
Name	OJ990407_03.0420.C7.o2.np	Method	AAT/NAP
Start	8787	End	14649
GI	7363293	Score	179
Exons	8787..8831, 14575..14649		
GI Descrip.	(AP001552) hypothetical protein [Oryza sativa]		

Seq. No.	53025	Seq. ID	OJ990407_03.0420.C8
Gene No.	111815	Strand	+
Start	1	End	113
Name	OJ990407_03.0420.C8.o1.np	Method	AAT/NAP
Start	1	End	113
GI	7340920	Score	148
Exons	1..113		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	53025	Seq. ID	OJ990407_03.0420.C8
Gene No.	111816	Strand	+
Start	3049	End	4244
Name	OJ990407_03.0420.C8.o1.gs	Method	GENSCAN
Start	3049	End	4244
GI	none	Score	.76
Exons	3049..3314, 3407..4244		

Seq. No.	53025	Seq. ID	OJ990407_03.0420.C8
Gene No.	111816	Strand	+
Start	3049	End	4244
Name	OJ990407_03.0420.C8.o2.np	Method	AAT/NAP

Start	3049	End	4241
GI	7363294	Score	1922
Exons	3049..3314, 3407..4241		
GI Descrip.	(AP001552) EST AU082058(C12976) corresponds to a region of the predicted gene.; Similar to Arabidopsis thaliana putative transcription factor (AF062916) [Oryza sativa]		

Seq. No.	53025	Seq. ID	OJ990407_03.0420.C8
Gene No.	111817	Strand	-
Start	2237	End	5333
Name	OJ990407_03.0420.C8.o1.gp	Method	AAT/GAP
Start	2237	End	5333
GI	LIB3477-003-P1-K1-E9	Score	135
Exons	2237..2282, 5279..5333		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	53025	Seq. ID	OJ990407_03.0420.C8
Gene No.	111817	Strand	-
Start	2237	End	5333
Name	OJ990407_03.0420.C8.o1.tm	Method	TBLASTX:Maize
Start	3049	End	3524
GI	none	Score	51
Exons	3049..3075, 3067..3315, 3084..3185, 3404..3517, 3405..3524		

Seq. No.	53025	Seq. ID	OJ990407_03.0420.C8
Gene No.	111817	Strand	-
Start	2237	End	5333
Name	OJ990407_03.0420.C8.o1.ts	Method	TBLASTX:Soybean
Start	3055	End	3536
GI	none	Score	37
Exons	3055..3075, 3067..3315, 3087..3188, 3404..3535, 3405..3536		

Seq. No.	53025	Seq. ID	OJ990407_03.0420.C8
Gene No.	111817	Strand	-
Start	2237	End	5333
Name	OJ990407_03.0420.C8.o1.tw	Method	TBLASTX:Wheat
Start	3067	End	3521
GI	none	Score	300
Exons	3067..3315, 3078..3188, 3237..3317, 3380..3520, 3404..3499, 3405..3521		

Seq. No.	53025	Seq. ID	OJ990407_03.0420.C8
Gene No.	111817	Strand	-
Start	2237	End	5333
Name	OJ990407_03.0420.C8.o1.tc	Method	TBLASTX:Cress
Start	3076	End	3667
GI	none	Score	347
Exons	3076..3315, 3404..3535, 3405..3536, 3620..3667		

Seq. No.	53026	Seq. ID	OJ990407_03.0420.C9
Gene No.	111818	Strand	+
Start	1	End	68
Name	OJ990407_03.0420.C9.o1.gp	Method	AAT/GAP
Start	1	End	68
GI	LIB3477-003-P1-K1-E9	Score	113

Exons	1..68
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No.	53026	Seq. ID	OJ990407_03.0420.C9
Gene No.	111819	Strand	-
Start	206	End	234
Name	OJ990407_03.0420.C9.o1.gs	Method	GENSCAN
Start	206	End	234
GI	none	Score	.81
Exons	206..234		

Seq. No.	53027	Seq. ID	OJ990407_03.0420.C10
Gene No.	111820	Strand	+
Start	610	End	1012
Name	OJ990407_03.0420.C10.o1.tm	Method	TBLASTX:Maize
Start	588	End	853
GI	none	Score	131
Exons	588..728, 595..717, 785..847,	787..852,	788..853

Seq. No.	53027	Seq. ID	OJ990407_03.0420.C10
Gene No.	111820	Strand	+
Start	610	End	1012
Name	OJ990407_03.0420.C10.o1.ts	Method	TBLASTX:Soybean
Start	595	End	1003
GI	5688457	Score	97
Exons	595..696, 615..677, 625..678,	788..859,	880..993, 890..1003
GI Descrip.	-		

Seq. No.	53027	Seq. ID	OJ990407_03.0420.C10
Gene No.	111820	Strand	+
Start	610	End	1012
Name	OJ990407_03.0420.C10.o1.gs	Method	GENSCAN
Start	610	End	1012
GI	none	Score	.51
Exons	610..713, 790..1012		

Seq. No.	53028	Seq. ID	OJ990407_03.0420.C14
Gene No.	111821	Strand	+
Start	373	End	687
Name	OJ990407_03.0420.C14.o1.gs	Method	GENSCAN
Start	373	End	687
GI	none	Score	.61
Exons	373..687		

Seq. No.	53028	Seq. ID	OJ990407_03.0420.C14
Gene No.	111821	Strand	+
Start	373	End	687
Name	OJ990407_03.0420.C14.o1.np	Method	AAT/NAP
Start	375	End	684
GI	7363291	Score	482
Exons	375..684		
GI Descrip.	(AP001552) ESTs C74322(E30878),AU082328(E30878) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53029	Seq. ID	OJ990407_03.0420.C16
Gene No.	111822	Strand	
Start	294	End	664
Name	OJ990407_03.0420.C16.o1.tw	Method	TBLASTX:Wheat
Start	294	End	664
GI	none	Score	61
Exons	294..521, 310..537, 530..664, 531..608		

Seq. No.	53030	Seq. ID	OJ990407_03.0420.C17
Gene No.	111823	Strand	+
Start	1	End	195
Name	OJ990407_03.0420.C17.o1.gp	Method	AAT/GAP
Start	1	End	195
GI	5038584	Score	355
Exons	1..195		

Seq. No.	53030	Seq. ID	OJ990407_03.0420.C17
Gene No.	111824	Strand	-
Start	181	End	339
Name	OJ990407_03.0420.C17.o1.gs	Method	GENSCAN
Start	181	End	339
GI	none	Score	.96
Exons	181..339		

Seq. No.	53031	Seq. ID	OJ990407_03.0420.C19
Gene No.	111825	Strand	+
Start	3399	End	3896
Name	OJ990407_03.0420.C19.o1.gs	Method	GENSCAN
Start	3399	End	3896
GI	none	Score	.46
Exons	3399..3459, 3791..3896		

Seq. No.	53032	Seq. ID	OJ990407_03.0420.C20
Gene No.	111826	Strand	+
Start	1	End	929
Name	OJ990407_03.0420.C20.o1.np	Method	AAT/NAP
Start	1	End	908
GI	7485622	Score	280
Exons	1..390, 475..540, 654..719, 831..908		
GI Descrip.	hypothetical protein F17I5.70 - Arabidopsis thaliana gi|3297812|emb|CAA19870.1| (AL031032) putative protein [Arabidopsis thaliana] gi|7270337|emb|CAB80105.1| (AL161584) putative protein [Arabidopsis thaliana]		

Seq. No.	53032	Seq. ID	OJ990407_03.0420.C20
Gene No.	111826	Strand	+
Start	1	End	929
Name	OJ990407_03.0420.C20.o1.gs	Method	GENSCAN
Start	94	End	929
GI	none	Score	.99
Exons	94..390, 475..540, 654..719, 831..929		

Seq. No.	53032	Seq. ID	OJ990407_03.0420.C20
Gene No.	111827	Strand	-
Start	1	End	2050
Name	OJ990407_03.0420.C20.o2.np	Method	AAT/NAP
Start	1	End	2050

GI	5852180	Score	244
Exons	1..112, 1491..2050		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	53033	Seq. ID	OJ990407_03.0420.C22
Gene No.	111828	Strand	-
Start	486	End	603
Name	OJ990407_03.0420.C22.o1.gs	Method	GENSCAN
Start	486	End	603
GI	none	Score	.55
Exons	486..603		

Seq. No.	53034	Seq. ID	OJ990407_03.0420.C23
Gene No.	111829	Strand	+
Start	1	End	4531
Name	OJ990407_03.0420.C23.o1.np	Method	AAT/NAP
Start	1	End	4531
GI	6693023	Score	956
Exons	1..130, 819..949, 1255..1362, 2175..2231, 2322..2425, 2508..2933, 3865..4242, 4284..4531		
GI Descrip.	(AC012375) T22C5.20 [Arabidopsis thaliana]		

Seq. No.	53034	Seq. ID	OJ990407_03.0420.C23
Gene No.	111829	Strand	+
Start	1	End	4531
Name	OJ990407_03.0420.C23.o1.gs	Method	GENSCAN
Start	49	End	4521
GI	none	Score	.72
Exons	49..130, 819..978, 1093..1154, 2880..2933, 3865..4521		

Seq. No.	53034	Seq. ID	OJ990407_03.0420.C23
Gene No.	111829	Strand	+
Start	1	End	4531
Name	OJ990407_03.0420.C23.o1.ts	Method	TBLASTX:Soybean
Start	2310	End	2784
GI	none	Score	101
Exons	2310..2420, 2326..2388, 2327..2428, 2490..2582, 2505..2582, 2506..2634, 2626..2745, 2749..2784		

Seq. No.	53034	Seq. ID	OJ990407_03.0420.C23
Gene No.	111829	Strand	+
Start	1	End	4531
Name	OJ990407_03.0420.C23.o1.gp	Method	AAT/GAP
Start	2509	End	2917
GI	2428243	Score	749
Exons	2509..2917		

Seq. No.	53034	Seq. ID	OJ990407_03.0420.C23
Gene No.	111829	Strand	+
Start	1	End	4531
Name	OJ990407_03.0420.C23.o1.tm	Method	TBLASTX:Maize
Start	2650	End	3962
GI	none	Score	159
Exons	2650..2784, 2650..2784, 2743..2841, 2784..2840, 2787..2849, 2863..2943, 2875..2934, 3857..3961, 3862..3960, 3864..3962, 3864..3962		

Seq. No.	53035	Seq. ID	OJ990407_03.0420.C28
Gene No.	111830	Strand	+
Start	1	End	1365
Name	OJ990407_03.0420.C28.o1.np	Method	AAT/NAP
Start	1	End	1365
GI	267421	Score	287
Exons	1..341, 473..667, 786..871, 1188..1365		
GI Descrip.	DNA-REPAIR PROTEIN COMPLEMENTING XP-G CELLS HOMOLOG (XERODERMA PIGMENTOSUM GROUP G COMPLEMENTING PROTEIN HOMOLOG) gi|422627|pir||S35994 DNA repair protein XPGC - African clawed frog gi|312433|emb|CAA49597| (X69977) XP-G related factor [Xenopus laevis]		

Seq. No.	53035	Seq. ID	OJ990407_03.0420.C28
Gene No.	111830	Strand	+
Start	1	End	1365
Name	OJ990407_03.0420.C28.o1.gs	Method	GENSCAN
Start	212	End	875
GI	none	Score	.79
Exons	212..341, 473..667, 720..875		

Seq. No.	53035	Seq. ID	OJ990407_03.0420.C28
Gene No.	111830	Strand	+
Start	1	End	1365
Name	OJ990407_03.0420.C28.o1.ts	Method	TBLASTX:Soybean
Start	225	End	592
GI	none	Score	114
Exons	225..353, 269..352, 437..592, 470..547, 471..590		

Seq. No.	53036	Seq. ID	OJ990407_03.0420.C30
Gene No.	111831	Strand	+
Start	1285	End	1356
Name	OJ990407_03.0420.C30.o1.gs	Method	GENSCAN
Start	1285	End	1356
GI	none	Score	.4
Exons	1285..1356		

Seq. No.	53037	Seq. ID	OJ990407_03.0420.C31
Gene No.	111832	Strand	+
Start	54	End	335
Name	OJ990407_03.0420.C31.o1.gs	Method	GENSCAN
Start	54	End	335
GI	none	Score	.5
Exons	54..112, 251..335		

Seq. No.	53037	Seq. ID	OJ990407_03.0420.C31
Gene No.	111833	Strand	-
Start	540	End	712
Name	OJ990407_03.0420.C31.o2.gs	Method	GENSCAN
Start	540	End	712
GI	none	Score	.46
Exons	540..712		

Seq. No.	53038	Seq. ID	OJ990407_03.0420.C36
Gene No.	111834	Strand	+
Start	67	End	380
Name	OJ990407_03.0420.C36.o1.gs	Method	GENSCAN

Start	67	End	380
GI	none	Score	.76
Exons	67..200, 311..380		

Seq. No.	53038	Seq. ID	OJ990407_03.0420.C36
Gene No.	111835	Strand	-
Start	608	End	1185
Name	OJ990407_03.0420.C36.o1.gp	Method	AAT/GAP
Start	608	End	1185
GI	4715133	Score	1123
Exons	608..1185		

Seq. No.	53039	Seq. ID	OJ990407_03.0420.C38
Gene No.	111836	Strand	-
Start	1	End	1976
Name	OJ990407_03.0420.C38.o1.np	Method	AAT/NAP
Start	1	End	1976
GI	7436361	Score	1644
Exons	1..127, 492..663, 879..1037, 1122..1976		
GI Descrip.	Ca2+-transporting ATPase (EC 3.6.1.38) ACA2 - Arabidopsis thaliana gi|3335060|gb|AAC26997.1| (AF025842) plasma membrane-type calcium ATPase [Arabidopsis thaliana] gi|4468989|emb|CAB38303.1| (AL035605) plasma membrane-type calcium ATPase (ACA2) [Arabidopsis thaliana] gi|7270746|emb|CAB80429.1| (AL161591) plasma membrane-type calcium ATPase (ACA2) [Arabidopsis thaliana]		

Seq. No.	53039	Seq. ID	OJ990407_03.0420.C38
Gene No.	111836	Strand	-
Start	1	End	1976
Name	OJ990407_03.0420.C38.o1.ts	Method	TBLASTX:Soybean
Start	1	End	1747
GI	none	Score	162
Exons	1..165, 1..162, 3..191, 484..666, 485..664, 490..681, 876..1040, 876..1040, 877..1047, 1084..1650, 1119..1652, 1299..1652, 1702..1746, 1703..1747		

Seq. No.	53039	Seq. ID	OJ990407_03.0420.C38
Gene No.	111836	Strand	-
Start	1	End	1976
Name	OJ990407_03.0420.C38.o1.tm	Method	TBLASTX:Maize
Start	1	End	1794
GI	none	Score	193
Exons	1..165, 1..150, 3..191, 484..666, 485..664, 862..1038, 876..1040, 876..1040, 1087..1665, 1119..1664, 1519..1665, 1702..1794, 1703..1792		

Seq. No.	53039	Seq. ID	OJ990407_03.0420.C38
Gene No.	111836	Strand	-
Start	1	End	1976
Name	OJ990407_03.0420.C38.o1.tc	Method	TBLASTX:Cress
Start	1	End	1975
GI	none	Score	76
Exons	1..156, 2..124, 3..125, 3..191, 4..165, 484..666, 485..664, 502..681, 817..1041, 876..1040, 1084..1590, 1118..1462, 1119..1589, 1584..1652, 1585..1647, 1702..1863, 1703..1849, 1868..1975, 1870..1974		

Seq. No.	53039	Seq. ID	OJ990407_03.0420.C38
Gene No.	111836	Strand	-
Start	1	End	1976
Name	OJ990407_03.0420.C38.o1.gs	Method	GENSCAN
Start	492	End	1971
GI	none	Score	.72
Exons	492..663, 879..1037, 1098..1643, 1672..1971		

Seq. No.	53039	Seq. ID	OJ990407_03.0420.C38
Gene No.	111836	Strand	-
Start	1	End	1976
Name	OJ990407_03.0420.C38.o1.tw	Method	TBLASTX:Wheat
Start	1705	End	1975
GI	none	Score	222
Exons	1705..1974, 1706..1975		

Seq. No.	53039	Seq. ID	OJ990407_03.0420.C38
Gene No.	111836	Strand	-
Start	1	End	1976
Name	OJ990407_03.0420.C38.o2.ts	Method	TBLASTX:Soybean
Start	1747	End	1975
GI	none	Score	232
Exons	1747..1974, 1748..1975		

Seq. No.	53039	Seq. ID	OJ990407_03.0420.C38
Gene No.	111836	Strand	-
Start	1	End	1976
Name	OJ990407_03.0420.C38.o2.tm	Method	TBLASTX:Maize
Start	1798	End	1976
GI	none	Score	191
Exons	1798..1974, 1799..1975, 1917..1976		

Seq. No.	53040	Seq. ID	OJ990407_03.0420.C39
Gene No.	111837	Strand	+
Start	219	End	332
Name	OJ990407_03.0420.C39.o1.np	Method	AAT/NAP
Start	219	End	332
GI	6815099	Score	78
Exons	219..332		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	53040	Seq. ID	OJ990407_03.0420.C39
Gene No.	111838	Strand	-
Start	1130	End	1745
Name	OJ990407_03.0420.C39.o1.gs	Method	GENSCAN
Start	1130	End	1745
GI	none	Score	.65
Exons	1130..1537, 1640..1745		

Seq. No.	53040	Seq. ID	OJ990407_03.0420.C39
Gene No.	111838	Strand	-
Start	1130	End	1745
Name	OJ990407_03.0420.C39.o1.tc	Method	TBLASTX:Cress
Start	1189	End	1372
GI	none	Score	146
Exons	1189..1368, 1190..1372, 1190..1372		

Seq. No.	53040	Seq. ID	OJ990407_03.0420.C39
Gene No.	111838	Strand	-
Start	1130	End	1745
Name	OJ990407_03.0420.C39.o1.tm	Method	TBLASTX:Maize
Start	1190	End	1374
GI	none	Score	219
Exons	1190..1372, 1195..1368, 1202..1372, 1246..1374		

Seq. No.	53040	Seq. ID	OJ990407_03.0420.C39
Gene No.	111838	Strand	-
Start	1130	End	1745
Name	OJ990407_03.0420.C39.o1.ts	Method	TBLASTX:Soybean
Start	1192	End	1372
GI	none	Score	106
Exons	1192..1335, 1202..1336, 1342..1371, 1343..1372		

Seq. No.	53040	Seq. ID	OJ990407_03.0420.C39
Gene No.	111838	Strand	-
Start	1130	End	1745
Name	OJ990407_03.0420.C39.o2.np	Method	AAT/NAP
Start	1192	End	1368
GI	2129580	Score	187
Exons	1192..1368		
GI Descrip.	envelope Ca2+-ATPase precursor - Arabidopsis thaliana gi|493622|dbj|BAA03090.1| (D13983) chloroplast envelope Ca2+-ATPase precursor [Arabidopsis thaliana] gi|4176435|emb|CAA49559.1| (X69941) envelope Ca2+-ATPase [Arabidopsis thaliana]		

Seq. No.	53041	Seq. ID	OJ990407_03.0420.C40
Gene No.	111839	Strand	+
Start	87	End	1730
Name	OJ990407_03.0420.C40.o1.gs	Method	GENSCAN
Start	87	End	1730
GI	none	Score	.41
Exons	87..348, 1182..1279, 1362..1499, 1616..1730		

Seq. No.	53041	Seq. ID	OJ990407_03.0420.C40
Gene No.	111840	Strand	-
Start	640	End	1003
Name	OJ990407_03.0420.C40.o1.np	Method	AAT/NAP
Start	640	End	1003
GI	6730936	Score	77
Exons	640..770, 830..1003		
GI Descrip.	(AB028182) OsNAC3 protein [Oryza sativa]		

Seq. No.	53041	Seq. ID	OJ990407_03.0420.C40
Gene No.	111841	Strand	-
Start	1913	End	2239
Name	OJ990407_03.0420.C40.o2.gs	Method	GENSCAN
Start	1913	End	2239
GI	none	Score	.48
Exons	1913..2239		

Seq. No.	53041	Seq. ID	OJ990407_03.0420.C40
Gene No.	111842	Strand	-

Start	2326	End	2416
Name	OJ990407_03.0420.C40.o2.np	Method	AAT/NAP
Start	2326	End	2416
GI	7339707	Score	47
Exons	2326..2416		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	53042	Seq. ID	OJ990407_03.0420.C41
Gene No.	111843	Strand	+
Start	334	End	570
Name	OJ990407_03.0420.C41.o1.gs	Method	GENSCAN
Start	334	End	570
GI	none	Score	.6
Exons	334..412, 551..570		

Seq. No.	53042	Seq. ID	OJ990407_03.0420.C41
Gene No.	111844	Strand	-
Start	1230	End	1605
Name	OJ990407_03.0420.C41.o2.gs	Method	GENSCAN
Start	1230	End	1605
GI	none	Score	.55
Exons	1230..1605		

Seq. No.	53043	Seq. ID	OJ990407_03.0420.C49
Gene No.	111845	Strand	-
Start	421	End	618
Name	OJ990407_03.0420.C49.o1.gs	Method	GENSCAN
Start	421	End	618
GI	none	Score	.88
Exons	421..618		

Seq. No.	53044	Seq. ID	OJ990407_03.0420.C51
Gene No.	111846	Strand	-
Start	104	End	325
Name	OJ990407_03.0420.C51.o1.gs	Method	GENSCAN
Start	104	End	325
GI	none	Score	.42
Exons	104..325		

Seq. No.	53045	Seq. ID	OJ990407_03.0420.C53
Gene No.	111847	Strand	-
Start	46	End	769
Name	OJ990407_03.0420.C53.o1.gs	Method	GENSCAN
Start	46	End	685
GI	none	Score	.68
Exons	46..233, 424..685		

Seq. No.	53045	Seq. ID	OJ990407_03.0420.C53
Gene No.	111847	Strand	-
Start	46	End	769
Name	OJ990407_03.0420.C53.o1.np	Method	AAT/NAP
Start	576	End	769
GI	7486928	Score	63
Exons	576..769		
GI Descrip.	hypothetical protein T13D8.28 - Arabidopsis thaliana gi|3249093|gb|AAC24077.1| (AC004473) Contains similarity to heat shock transcription factor homolog from A. thaliana chromosome 4		

contig gb|Z97335. [Arabidopsis thaliana]

Seq. No.	53046	Seq. ID	OJ990407_03.0420.C62
Gene No.	111848	Strand	+
Start	1	End	6597
Name	OJ990407_03.0420.C62.o1.np	Method	AAT/NAP
Start	1	End	4897
GI	7452046	Score	704
Exons	1..268, 305..1349, 1539..1840, 2491..2875, 2924..3312, 3406..3590, 3626..4168, 4836..4897		
GI Descrip.	hypothetical protein F6G3.180 - Arabidopsis thaliana gi|4938491|emb|CAB43850.1| (AL078464) hypothetical protein [Arabidopsis thaliana] gi|7269915|emb|CAB81008.1| (AL161576) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53046	Seq. ID	OJ990407_03.0420.C62
Gene No.	111848	Strand	+
Start	1	End	6597
Name	OJ990407_03.0420.C62.o3.np	Method	AAT/NAP
Start	1	End	6401
GI	7452046	Score	1011
Exons	1..268, 305..1349, 1539..1840, 2491..2875, 2924..3312, 3406..3590, 3626..4167, 5211..5626, 5673..5879, 6305..6401		
GI Descrip.	hypothetical protein F6G3.180 - Arabidopsis thaliana gi|4938491|emb|CAB43850.1| (AL078464) hypothetical protein [Arabidopsis thaliana] gi|7269915|emb|CAB81008.1| (AL161576) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53046	Seq. ID	OJ990407_03.0420.C62
Gene No.	111848	Strand	+
Start	1	End	6597
Name	OJ990407_03.0420.C62.o2.np	Method	AAT/NAP
Start	1	End	5943
GI	7452046	Score	898
Exons	1..268, 305..1349, 1539..1840, 2491..2875, 2924..3312, 3406..3590, 3626..4167, 5211..5626, 5673..5943		
GI Descrip.	hypothetical protein F6G3.180 - Arabidopsis thaliana gi|4938491|emb|CAB43850.1| (AL078464) hypothetical protein [Arabidopsis thaliana] gi|7269915|emb|CAB81008.1| (AL161576) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53046	Seq. ID	OJ990407_03.0420.C62
Gene No.	111848	Strand	+
Start	1	End	6597
Name	OJ990407_03.0420.C62.o1.gs	Method	GENSCAN
Start	232	End	6597
GI	none	Score	.59
Exons	232..459, 868..1023, 1239..1349, 1539..1840, 2491..2987, 3283..4167, 5211..5535, 5717..5798, 6131..6234, 6305..6396, 6521..6597		

Seq. No.	53046	Seq. ID	OJ990407_03.0420.C62
Gene No.	111848	Strand	+
Start	1	End	6597
Name	OJ990407_03.0420.C62.o1.gp	Method	AAT/GAP
Start	772	End	1286
GI	53041_1.R1084	Score	1007

Exons	772..1286		
GI Descrip.	'4938491/emb|CAB43850.1| 1.0e-10 (AL078464) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	53046	Seq. ID	OJ990407_03.0420.C62
Gene No.	111849	Strand	-
Start	6522	End	6820
Name	OJ990407_03.0420.C62.o2.tm	Method	TBLASTX:Maize
Start	2926	End	3123
GI	none	Score	225
Exons	2926..3123, 2927..3121		
Seq. No.	53046	Seq. ID	OJ990407_03.0420.C62
Gene No.	111849	Strand	-
Start	6522	End	6820
Name	OJ990407_03.0420.C62.o1.tm	Method	TBLASTX:Maize
Start	3545	End	3811
GI	none	Score	279
Exons	3545..3811, 3546..3809		
Seq. No.	53046	Seq. ID	OJ990407_03.0420.C62
Gene No.	111849	Strand	-
Start	6522	End	6820
Name	OJ990407_03.0420.C62.o2.gp	Method	AAT/GAP
Start	6522	End	6820
GI	55483_1.R1084	Score	468
Exons	6522..6820		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		
Seq. No.	53047	Seq. ID	OJ990407_03.0420.C63
Gene No.	111850	Strand	-
Start	1286	End	2425
Name	OJ990407_03.0420.C63.o1.gs	Method	GENSCAN
Start	1286	End	2425
GI	none	Score	.61
Exons	1286..1351, 1639..1768, 2394..2425		
Seq. No.	53048	Seq. ID	OJ990407_03.0420.C64
Gene No.	111851	Strand	+
Start	21	End	329
Name	OJ990407_03.0420.C64.o1.gs	Method	GENSCAN
Start	21	End	329
GI	none	Score	.69
Exons	21..75, 114..179, 304..329		
Seq. No.	53048	Seq. ID	OJ990407_03.0420.C64
Gene No.	111852	Strand	-
Start	869	End	1051
Name	OJ990407_03.0420.C64.o2.gs	Method	GENSCAN
Start	869	End	1051
GI	none	Score	.66
Exons	869..1051		
Seq. No.	53049	Seq. ID	OJ990407_03.0420.C66
Gene No.	111853	Strand	-
Start	276	End	462

Name	OJ990407_03.0420.C66.o1.gs	Method	GENSCAN
Start	276	End	462
GI	none	Score	.49
Exons	276..462		

Seq. No.	53050	Seq. ID	OJ990407_03.0420.C68
Gene No.	111854	Strand	+
Start	315	End	774
Name	OJ990407_03.0420.C68.o1.gs	Method	GENSCAN
Start	315	End	774
GI	none	Score	.57
Exons	315..324, 430..662, 748..774		

Seq. No.	53050	Seq. ID	OJ990407_03.0420.C68
Gene No.	111855	Strand	-
Start	914	End	1028
Name	OJ990407_03.0420.C68.o2.gs	Method	GENSCAN
Start	914	End	1028
GI	none	Score	.79
Exons	914..1028		

Seq. No.	53051	Seq. ID	OJ990407_03.0420.C71
Gene No.	111856	Strand	-
Start	222	End	1202
Name	OJ990407_03.0420.C71.o1.gs	Method	GENSCAN
Start	222	End	481
GI	none	Score	.92
Exons	222..329, 416..481		

Seq. No.	53051	Seq. ID	OJ990407_03.0420.C71
Gene No.	111856	Strand	-
Start	222	End	1202
Name	OJ990407_03.0420.C71.o1.np	Method	AAT/NAP
Start	224	End	1202
GI	7230673	Score	115
Exons	224..329, 416..504, 1156..1202		
GI Descrip.	(AF236059) putative Myb-related domain [Papaver rhoeas]		

Seq. No.	53052	Seq. ID	OJ990617_07.0421.C5
Gene No.	111857	Strand	+
Start	1	End	473
Name	OJ990617_07.0421.C5.o1.np	Method	AAT/NAP
Start	1	End	470
GI	4680179	Score	787
Exons	1..470		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	53052	Seq. ID	OJ990617_07.0421.C5
Gene No.	111857	Strand	+
Start	1	End	473
Name	OJ990617_07.0421.C5.o1.tw	Method	TBLASTX:Wheat
Start	3	End	460
GI	none	Score	464
Exons	3..425, 23..145, 120..200, 185..301, 264..404, 407..460		

Seq. No.	53052	Seq. ID	OJ990617_07.0421.C5
Gene No.	111857	Strand	+

Start	1	End	473
Name	OJ990617_07.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	72	End	329
GI	none	Score	296
Exons	72..329, 83..301, 183..329		

Seq. No.	53052	Seq. ID	OJ990617_07.0421.C5
Gene No.	111857	Strand	+
Start	1	End	473
Name	OJ990617_07.0421.C5.o1.gs	Method	GENSCAN
Start	78	End	473
GI	none	Score	.7
Exons	78..473		

Seq. No.	53053	Seq. ID	OJ990617_07.0421.C6
Gene No.	111858	Strand	+
Start	1	End	834
Name	OJ990617_07.0421.C6.o1.np	Method	AAT/NAP
Start	1	End	834
GI	7340881	Score	116
Exons	1..38, 279..452, 558..596, 750..834		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	53053	Seq. ID	OJ990617_07.0421.C6
Gene No.	111859	Strand	-
Start	205	End	396
Name	OJ990617_07.0421.C6.o1.gs	Method	GENSCAN
Start	205	End	396
GI	none	Score	.46
Exons	205..396		

Seq. No.	53054	Seq. ID	OJ990617_07.0421.C7
Gene No.	111860	Strand	+
Start	1	End	829
Name	OJ990617_07.0421.C7.o1.np	Method	AAT/NAP
Start	1	End	829
GI	5852181	Score	117
Exons	1..360, 752..829		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	53054	Seq. ID	OJ990617_07.0421.C7
Gene No.	111860	Strand	+
Start	1	End	829
Name	OJ990617_07.0421.C7.o1.gs	Method	GENSCAN
Start	165	End	654
GI	none	Score	.76
Exons	165..323, 329..654		

Seq. No.	53055	Seq. ID	OJ990617_07.0421.C11
Gene No.	111861	Strand	-
Start	1	End	772
Name	OJ990617_07.0421.C11.o1.np	Method	AAT/NAP
Start	1	End	772
GI	6983860	Score	1069
Exons	1..772		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	53055	Seq. ID	OJ990617_07.0421.C11
Gene No.	111861	Strand	-
Start	1	End	772
Name	OJ990617_07.0421.C11.o2.tw	Method	TBLASTX:Wheat
Start	5	End	247
GI	none	Score	76
Exons	5..169, 15..152, 32..163, 175..246, 176..247		

Seq. No.	53055	Seq. ID	OJ990617_07.0421.C11
Gene No.	111861	Strand	-
Start	1	End	772
Name	OJ990617_07.0421.C11.o1.gs	Method	GENSCAN
Start	64	End	717
GI	none	Score	.54
Exons	64..717		

Seq. No.	53055	Seq. ID	OJ990617_07.0421.C11
Gene No.	111861	Strand	-
Start	1	End	772
Name	OJ990617_07.0421.C11.o1.tm	Method	TBLASTX:Maize
Start	95	End	693
GI	none	Score	38
Exons	95..169, 111..155, 169..534, 170..535, 404..535, 530..688, 532..693, 539..685		

Seq. No.	53055	Seq. ID	OJ990617_07.0421.C11
Gene No.	111861	Strand	-
Start	1	End	772
Name	OJ990617_07.0421.C11.o1.tw	Method	TBLASTX:Wheat
Start	247	End	771
GI	none	Score	69
Exons	247..771, 250..501, 359..763		

Seq. No.	53056	Seq. ID	OJ990617_07.0421.C12
Gene No.	111862	Strand	-
Start	1	End	1005
Name	OJ990617_07.0421.C12.o1.np	Method	AAT/NAP
Start	1	End	1005
GI	4680179	Score	1704
Exons	1..1005		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	53056	Seq. ID	OJ990617_07.0421.C12
Gene No.	111862	Strand	-
Start	1	End	1005
Name	OJ990617_07.0421.C12.o1.tm	Method	TBLASTX:Maize
Start	18	End	372
GI	none	Score	51
Exons	18..158, 22..63, 103..159, 150..320, 151..318, 157..372, 188..370		

Seq. No.	53056	Seq. ID	OJ990617_07.0421.C12
Gene No.	111862	Strand	-
Start	1	End	1005
Name	OJ990617_07.0421.C12.o1.tw	Method	TBLASTX:Wheat
Start	18	End	445

GI	none	Score	85
Exons	18..155, 18..158, 100..159, 157..444, 158..412, 167..445		

Seq. No.	53056	Seq. ID	OJ990617_07.0421.C12
Gene No.	111862	Strand	-
Start	1	End	1005
Name	OJ990617_07.0421.C12.o1.gs	Method	GENSCAN
Start	79	End	960
GI	none	Score	.99
Exons	79..960		

Seq. No.	53056	Seq. ID	OJ990617_07.0421.C12
Gene No.	111862	Strand	-
Start	1	End	1005
Name	OJ990617_07.0421.C12.o2.ts	Method	TBLASTX:Soybean
Start	193	End	438
GI	none	Score	204
Exons	193..438		

Seq. No.	53056	Seq. ID	OJ990617_07.0421.C12
Gene No.	111862	Strand	-
Start	1	End	1005
Name	OJ990617_07.0421.C12.o2.tm	Method	TBLASTX:Maize
Start	409	End	909
GI	none	Score	43
Exons	409..744, 452..502, 527..658, 730..909		

Seq. No.	53056	Seq. ID	OJ990617_07.0421.C12
Gene No.	111862	Strand	-
Start	1	End	1005
Name	OJ990617_07.0421.C12.o2.tw	Method	TBLASTX:Wheat
Start	446	End	747
GI	none	Score	242
Exons	446..727, 451..747		

Seq. No.	53056	Seq. ID	OJ990617_07.0421.C12
Gene No.	111862	Strand	-
Start	1	End	1005
Name	OJ990617_07.0421.C12.o1.ts	Method	TBLASTX:Soybean
Start	460	End	855
GI	none	Score	163
Exons	460..819, 461..724, 745..819, 811..855, 823..855		

Seq. No.	53056	Seq. ID	OJ990617_07.0421.C12
Gene No.	111862	Strand	-
Start	1	End	1005
Name	OJ990617_07.0421.C12.o3.tw	Method	TBLASTX:Wheat
Start	748	End	1004
GI	none	Score	199
Exons	748..918, 755..910, 922..966, 926..967, 968..1003, 972..1004		

Seq. No.	53057	Seq. ID	OJ990617_07.0421.C14
Gene No.	111863	Strand	-
Start	498	End	912
Name	OJ990617_07.0421.C14.o1.gs	Method	GENSCAN
Start	498	End	832
GI	none	Score	.77

Exons	498..832		
Seq. No.	53057	Seq. ID	OJ990617_07.0421.C14
Gene No.	111863	Strand	-
Start	498	End	912
Name	OJ990617_07.0421.C14.o1.np	Method	AAT/NAP
Start	636	End	912
GI	4680185	Score	286
Exons	636..912		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	53058	Seq. ID	OJ990617_07.0421.C16
Gene No.	111864	Strand	+
Start	1	End	643
Name	OJ990617_07.0421.C16.o1.np	Method	AAT/NAP
Start	1	End	640
GI	6983858	Score	959
Exons	1..640		
GI Descrip.	(AP001168) Similar to gypsy-type retrotransposon RIRE8B DNA, internal region (AB014741) [Oryza sativa]		
Seq. No.	53058	Seq. ID	OJ990617_07.0421.C16
Gene No.	111864	Strand	+
Start	1	End	643
Name	OJ990617_07.0421.C16.o1.gs	Method	GENSCAN
Start	71	End	643
GI	none	Score	.99
Exons	71..643		
Seq. No.	53059	Seq. ID	OJ990617_07.0421.C20
Gene No.	111865	Strand	-
Start	1	End	2818
Name	OJ990617_07.0421.C20.o1.np	Method	AAT/NAP
Start	1	End	2187
GI	4680179	Score	2016
Exons	1..1056, 1090..2187		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	53059	Seq. ID	OJ990617_07.0421.C20
Gene No.	111865	Strand	-
Start	1	End	2818
Name	OJ990617_07.0421.C20.o1.tm	Method	TBLASTX:Maize
Start	1	End	387
GI	none	Score	63
Exons	1..387, 2..157, 169..348		
Seq. No.	53059	Seq. ID	OJ990617_07.0421.C20
Gene No.	111865	Strand	-
Start	1	End	2818
Name	OJ990617_07.0421.C20.o1.tw	Method	TBLASTX:Wheat
Start	10	End	496
GI	none	Score	288
Exons	10..387, 53..496, 442..492		
Seq. No.	53059	Seq. ID	OJ990617_07.0421.C20
Gene No.	111865	Strand	-
Start	1	End	2818

Name	OJ990617_07.0421.C20.o1.gs	Method	GENSCAN
Start	19	End	2818
GI	none	Score	.56
Exons	19..2171, 2342..2425, 2476..2818		

Seq. No.	53059	Seq. ID	OJ990617_07.0421.C20
Gene No.	111865	Strand	-
Start	1	End	2818
Name	OJ990617_07.0421.C20.o1.tc	Method	TBLASTX:Cress
Start	46	End	363
GI	none	Score	182
Exons	46..363		

Seq. No.	53059	Seq. ID	OJ990617_07.0421.C20
Gene No.	111865	Strand	-
Start	1	End	2818
Name	OJ990617_07.0421.C20.o3.tw	Method	TBLASTX:Wheat
Start	592	End	1029
GI	none	Score	64
Exons	592..633, 661..774, 662..775, 820..1029, 821..973		

Seq. No.	53059	Seq. ID	OJ990617_07.0421.C20
Gene No.	111865	Strand	-
Start	1	End	2818
Name	OJ990617_07.0421.C20.o3.tm	Method	TBLASTX:Maize
Start	712	End	1035
GI	none	Score	186
Exons	712..1035		

Seq. No.	53059	Seq. ID	OJ990617_07.0421.C20
Gene No.	111865	Strand	-
Start	1	End	2818
Name	OJ990617_07.0421.C20.o2.tw	Method	TBLASTX:Wheat
Start	1348	End	1721
GI	none	Score	115
Exons	1348..1698, 1505..1699, 1530..1721		

Seq. No.	53059	Seq. ID	OJ990617_07.0421.C20
Gene No.	111865	Strand	-
Start	1	End	2818
Name	OJ990617_07.0421.C20.o2.tm	Method	TBLASTX:Maize
Start	1393	End	1698
GI	none	Score	91
Exons	1393..1698, 1520..1684		

Seq. No.	53059	Seq. ID	OJ990617_07.0421.C20
Gene No.	111865	Strand	-
Start	1	End	2818
Name	OJ990617_07.0421.C20.o4.tw	Method	TBLASTX:Wheat
Start	1733	End	1959
GI	none	Score	122
Exons	1733..1930, 1735..1932, 1939..1959		

Seq. No.	53060	Seq. ID	OJ990617_07.0421.C21
Gene No.	111866	Strand	+
Start	1	End	2087
Name	OJ990617_07.0421.C21.o2.np	Method	AAT/NAP

Start	1	End	2087
GI	4680186	Score	378
Exons	1..93, 996..1047, 1887..2087		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	53060	Seq. ID	OJ990617_07.0421.C21
Gene No.	111867	Strand	-
Start	1	End	3119
Name	OJ990617_07.0421.C21.o1.np	Method	AAT/NAP
Start	1	End	3119
GI	4680179	Score	1102
Exons	1..932, 3052..3119		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	53060	Seq. ID	OJ990617_07.0421.C21
Gene No.	111867	Strand	-
Start	1	End	3119
Name	OJ990617_07.0421.C21.o2.tw	Method	TBLASTX:Wheat
Start	93	End	344
GI	none	Score	111
Exons	93..344, 99..320		

Seq. No.	53060	Seq. ID	OJ990617_07.0421.C21
Gene No.	111867	Strand	-
Start	1	End	3119
Name	OJ990617_07.0421.C21.o1.gs	Method	GENSCAN
Start	174	End	2967
GI	none	Score	.66
Exons	174..932, 1851..1947, 1971..2075, 2900..2967		

Seq. No.	53060	Seq. ID	OJ990617_07.0421.C21
Gene No.	111867	Strand	-
Start	1	End	3119
Name	OJ990617_07.0421.C21.o1.tw	Method	TBLASTX:Wheat
Start	345	End	848
GI	none	Score	366
Exons	345..848, 352..816		

Seq. No.	53060	Seq. ID	OJ990617_07.0421.C21
Gene No.	111867	Strand	-
Start	1	End	3119
Name	OJ990617_07.0421.C21.o1.tm	Method	TBLASTX:Maize
Start	414	End	777
GI	none	Score	175
Exons	414..776, 423..776, 427..777		

Seq. No.	53060	Seq. ID	OJ990617_07.0421.C21
Gene No.	111867	Strand	-
Start	1	End	3119
Name	OJ990617_07.0421.C21.o1.ts	Method	TBLASTX:Soybean
Start	597	End	842
GI	none	Score	97
Exons	597..842, 598..840		

Seq. No.	53060	Seq. ID	OJ990617_07.0421.C21
Gene No.	111867	Strand	-
Start	1	End	3119

Name	OJ990617_07.0421.C21.o1.gp	Method	AAT/GAP
Start	1638	End	2020
GI	uC-osflcyp033a04b1	Score	692
Exons	1638..2020		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	53061	Seq. ID	OJ990617_07.0421.C22
Gene No.	111868	Strand	+
Start	463	End	1142
Name	OJ990617_07.0421.C22.o1.gs	Method	GENSCAN
Start	463	End	1142
GI	none	Score	.94
Exons	463..569, 1085..1142		

Seq. No.	53061	Seq. ID	OJ990617_07.0421.C22
Gene No.	111869	Strand	-
Start	1	End	1404
Name	OJ990617_07.0421.C22.o1.np	Method	AAT/NAP
Start	1	End	1404
GI	5852175	Score	123
Exons	1..39, 416..515, 1098..1148, 1379..1404		
GI Descrip.	(AL117265) zhb0005.1 [Oryza sativa]		

Seq. No.	53061	Seq. ID	OJ990617_07.0421.C22
Gene No.	111869	Strand	-
Start	1	End	1404
Name	OJ990617_07.0421.C22.o1.gp	Method	AAT/GAP
Start	899	End	1121
GI	101153_1.R1084	Score	382
Exons	899..1121		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-115 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	53062	Seq. ID	OJ990617_07.0421.C24
Gene No.	111870	Strand	+
Start	679	End	916
Name	OJ990617_07.0421.C24.o1.tm	Method	TBLASTX:Maize
Start	678	End	915
GI	none	Score	58
Exons	678..737, 679..756, 763..915, 816..914		

Seq. No.	53062	Seq. ID	OJ990617_07.0421.C24
Gene No.	111870	Strand	+
Start	679	End	916
Name	OJ990617_07.0421.C24.o1.np	Method	AAT/NAP
Start	679	End	916
GI	7228446	Score	248
Exons	679..916		
GI Descrip.	(AP001366) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative retroelement pol polyprotein. (AC006248) [Oryza sativa]		

Seq. No.	53062	Seq. ID	OJ990617_07.0421.C24
Gene No.	111870	Strand	+
Start	679	End	916
Name	OJ990617_07.0421.C24.o1.ts	Method	TBLASTX:Soybean

Start	679	End	915
GI	none	Score	56
Exons	679..756, 739..915		

Seq. No.	53063	Seq. ID	OJ990617_07.0421.C26
Gene No.	111871	Strand	+
Start	176	End	703
Name	OJ990617_07.0421.C26.o1.np	Method	AAT/NAP
Start	176	End	703
GI	6815109	Score	111
Exons	176..270, 338..449, 518..703		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	53064	Seq. ID	OJ990317_05.0421.C1
Gene No.	111872	Strand	-
Start	137	End	384
Name	OJ990317_05.0421.C1.o1.gs	Method	GENSCAN
Start	137	End	384
GI	none	Score	.44
Exons	137..384		

Seq. No.	53065	Seq. ID	OJ990317_05.0421.C6
Gene No.	111873	Strand	-
Start	1370	End	1482
Name	OJ990317_05.0421.C6.o1.gs	Method	GENSCAN
Start	1370	End	1482
GI	none	Score	.56
Exons	1370..1482		

Seq. No.	53066	Seq. ID	OJ990317_05.0421.C21
Gene No.	111874	Strand	+
Start	518	End	1029
Name	OJ990317_05.0421.C21.o1.np	Method	AAT/NAP
Start	518	End	1029
GI	6815052	Score	263
Exons	518..670, 752..835, 982..1029		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	53066	Seq. ID	OJ990317_05.0421.C21
Gene No.	111875	Strand	-
Start	236	End	726
Name	OJ990317_05.0421.C21.o1.gs	Method	GENSCAN
Start	236	End	726
GI	none	Score	.67
Exons	236..359, 548..726		

Seq. No.	53067	Seq. ID	OJ990317_05.0421.C22
Gene No.	111876	Strand	-
Start	616	End	992
Name	OJ990317_05.0421.C22.o1.gs	Method	GENSCAN
Start	616	End	969
GI	none	Score	.92
Exons	616..969		

Seq. No.	53067	Seq. ID	OJ990317_05.0421.C22
Gene No.	111876	Strand	-
Start	616	End	992

Name	OJ990317_05.0421.C22.o1.np	Method	AAT/NAP
Start	679	End	992
GI	3056601	Score	124
Exons	679..992		
GI Descrip.	(AC004255) T1F9.22 [Arabidopsis thaliana]		

Seq. No.	53068	Seq. ID	OJ990317_05.0421.C23
Gene No.	111877	Strand	+
Start	216	End	647
Name	OJ990317_05.0421.C23.o1.gp	Method	AAT/GAP
Start	216	End	647
GI	none	Score	686
Exons	216..647		

Seq. No.	53068	Seq. ID	OJ990317_05.0421.C23
Gene No.	111878	Strand	+
Start	2638	End	2733
Name	OJ990317_05.0421.C23.o1.gs	Method	GENSCAN
Start	2638	End	2733
GI	none	Score	.49
Exons	2638..2733		

Seq. No.	53069	Seq. ID	OJ990317_05.0421.C24
Gene No.	111879	Strand	+
Start	1	End	887
Name	OJ990317_05.0421.C24.o1.np	Method	AAT/NAP
Start	1	End	887
GI	5852093	Score	85
Exons	1..23, 771..887		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	53069	Seq. ID	OJ990317_05.0421.C24
Gene No.	111880	Strand	+
Start	3277	End	4726
Name	OJ990317_05.0421.C24.o3.np	Method	AAT/NAP
Start	3277	End	4724
GI	2462827	Score	201
Exons	3277..3329, 4411..4551, 4650..4724		
GI Descrip.	(AF000657) probable thiamin biosynthetic enzyme [Arabidopsis thaliana]		

Seq. No.	53069	Seq. ID	OJ990317_05.0421.C24
Gene No.	111880	Strand	+
Start	3277	End	4726
Name	OJ990317_05.0421.C24.o2.gs	Method	GENSCAN
Start	4243	End	4724
GI	none	Score	.71
Exons	4243..4551, 4650..4724		

Seq. No.	53069	Seq. ID	OJ990317_05.0421.C24
Gene No.	111880	Strand	+
Start	3277	End	4726
Name	OJ990317_05.0421.C24.o1.gp	Method	AAT/GAP
Start	4274	End	4726
GI	uC-osf1M202054h06b1	Score	648
Exons	4274..4551, 4650..4726		
GI Descrip.	'2462827 3.0e-39 (AF000657) probable thiamin biosynthetic enzyme		

[Arabidopsis thaliana]'

Seq. No.	53069	Seq. ID	OJ990317_05.0421.C24
Gene No.	111881	Strand	-
Start	1111	End	2613
Name	OJ990317_05.0421.C24.o2.np	Method	AAT/NAP
Start	1111	End	2613
GI	7228450	Score	229
Exons	1111..1227, 1331..1450, 1590..1675, 2504..2613		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	53069	Seq. ID	OJ990317_05.0421.C24
Gene No.	111882	Strand	
Start	4368	End	4729
Name	OJ990317_05.0421.C24.o1.ts	Method	TBLASTX:Soybean
Start	4368	End	4729
GI	none	Score	207
Exons	4368..4547, 4369..4551, 4644..4694, 4664..4729		

Seq. No.	53069	Seq. ID	OJ990317_05.0421.C24
Gene No.	111882	Strand	
Start	4368	End	4729
Name	OJ990317_05.0421.C24.o1.tc	Method	TBLASTX:Cress
Start	4410	End	4726
GI	none	Score	197
Exons	4410..4547, 4411..4551, 4644..4691, 4664..4726		

Seq. No.	53070	Seq. ID	OJ990317_05.0421.C25
Gene No.	111883	Strand	+
Start	1	End	1519
Name	OJ990317_05.0421.C25.o1.np	Method	AAT/NAP
Start	1	End	1519
GI	7488455	Score	383
Exons	1..20, 263..349, 447..522, 623..757, 1176..1240, 1337..1519		
GI Descrip.	hydroxymethylpyrimidine kinase (EC 2.7.1.49) / thiamin-phosphate pyrophosphorylase (EC 2.5.1.3) - rape gi|2746079|gb|AAC31298.1| (AF015310) BTH1 [Brassica napus]		

Seq. No.	53070	Seq. ID	OJ990317_05.0421.C25
Gene No.	111883	Strand	+
Start	1	End	1519
Name	OJ990317_05.0421.C25.o1.gp	Method	AAT/GAP
Start	268	End	512
GI	uC-osf1M202054h06b1	Score	242
Exons	268..349, 447..512		
GI Descrip.	'2462827 3.0e-39 (AF000657) probable thiamin biosynthetic enzyme [Arabidopsis thaliana]'		

Seq. No.	53070	Seq. ID	OJ990317_05.0421.C25
Gene No.	111883	Strand	+
Start	1	End	1519
Name	OJ990317_05.0421.C25.o1.tm	Method	TBLASTX:Maize
Start	268	End	764
GI	none	Score	120
Exons	268..354, 272..352, 273..362, 435..545, 445..522, 603..764, 605..763		

Seq. No.	53070	Seq. ID	OJ990317_05.0421.C25
Gene No.	111883	Strand	+
Start	1	End	1519
Name	OJ990317_05.0421.C25.o1.gs	Method	GENSCAN
Start	286	End	1463
GI	none	Score	.6
Exons	286..349, 390..522, 623..757, 1409..1463		

Seq. No.	53070	Seq. ID	OJ990317_05.0421.C25
Gene No.	111883	Strand	+
Start	1	End	1519
Name	OJ990317_05.0421.C25.o1.ts	Method	TBLASTX:Soybean
Start	1173	End	1437
GI	none	Score	85
Exons	1173..1241, 1174..1242, 1320..1436, 1321..1437		

Seq. No.	53070	Seq. ID	OJ990317_05.0421.C25
Gene No.	111883	Strand	+
Start	1	End	1519
Name	OJ990317_05.0421.C25.o2.tm	Method	TBLASTX:Maize
Start	1173	End	1488
GI	none	Score	89
Exons	1173..1253, 1173..1244, 1177..1248, 1319..1432, 1320..1436, 1321..1437, 1433..1462, 1434..1466, 1435..1488		

Seq. No.	53071	Seq. ID	OJ990317_05.0421.C26
Gene No.	111884	Strand	+
Start	1	End	2003
Name	OJ990317_05.0421.C26.o1.np	Method	AAT/NAP
Start	1	End	1920
GI	7488455	Score	1031
Exons	1..133, 230..357, 1046..1302, 1395..1920		
GI Descrip.	hydroxymethylpyrimidine kinase (EC 2.7.1.49) / thiamin-phosphate pyrophosphorylase (EC 2.5.1.3) - rape gi|2746079|gb|AAC31298.1| (AF015310) BTH1 [Brassica napus]		

Seq. No.	53071	Seq. ID	OJ990317_05.0421.C26
Gene No.	111884	Strand	+
Start	1	End	2003
Name	OJ990317_05.0421.C26.o1.tm	Method	TBLASTX:Maize
Start	66	End	1689
GI	none	Score	89
Exons	66..146, 66..137, 70..141, 213..356, 214..363, 229..360, 1032..1301, 1040..1303, 1048..1302, 1392..1676, 1392..1685, 1393..1689		

Seq. No.	53071	Seq. ID	OJ990317_05.0421.C26
Gene No.	111884	Strand	+
Start	1	End	2003
Name	OJ990317_05.0421.C26.o2.ts	Method	TBLASTX:Soybean
Start	66	End	363
GI	none	Score	85
Exons	66..134, 67..135, 213..353, 214..363		

Seq. No.	53071	Seq. ID	OJ990317_05.0421.C26
Gene No.	111884	Strand	+
Start	1	End	2003

Name	OJ990317_05.0421.C26.o1.gs	Method	GENSCAN
Start	340	End	1920
GI	none	Score	.94
Exons	340..357, 1046..1302, 1395..1920		

Seq. No.	53071	Seq. ID	OJ990317_05.0421.C26
Gene No.	111884	Strand	+
Start	1	End	2003
Name	OJ990317_05.0421.C26.o1.gp	Method	AAT/GAP
Start	1228	End	2003
GI	4716712	Score	1296
Exons	1228..1302, 1395..2003		
GI Descrip.	2746079 2.0e-73 (AF015310) BTH1 [Brassica napus]		

Seq. No.	53071	Seq. ID	OJ990317_05.0421.C26
Gene No.	111884	Strand	+
Start	1	End	2003
Name	OJ990317_05.0421.C26.o1.tc	Method	TBLASTX:Cress
Start	1620	End	1914
GI	none	Score	81
Exons	1620..1742, 1621..1914, 1629..1883		

Seq. No.	53071	Seq. ID	OJ990317_05.0421.C26
Gene No.	111884	Strand	+
Start	1	End	2003
Name	OJ990317_05.0421.C26.o1.ts	Method	TBLASTX:Soybean
Start	1695	End	1902
GI	none	Score	227
Exons	1695..1883, 1696..1902		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111885	Strand	+
Start	1200	End	1449
Name	OJ990317_05.0421.C27.o1.gs	Method	GENSCAN
Start	1200	End	1449
GI	none	Score	.57
Exons	1200..1375, 1445..1449		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111886	Strand	+
Start	1529	End	1919
Name	OJ990317_05.0421.C27.o2.gp	Method	AAT/GAP
Start	1529	End	1919
GI	45924_1.R1084	Score	547
Exons	1529..1919		
GI Descrip.	'6063530/dbj|AP000615.1|AP000615 2.0e-19 Oryza sativa genomic DNA, chromosome 3, clone:P0043E01'		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111887	Strand	+
Start	1917	End	4252
Name	OJ990317_05.0421.C27.o2.gs	Method	GENSCAN
Start	1917	End	4252
GI	none	Score	.51
Exons	1917..2280, 2410..2530, 3373..3644, 3710..4053, 4085..4252		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27

Gene No.	111888	Strand	+
Start	6237	End	9096
Name	OJ990317_05.0421.C27.o3.gs	Method	GENSCAN
Start	6237	End	9096
GI	none	Score	.82
Exons	6237..6285, 6777..6853, 7040..7248, 8452..8629, 8650..9096		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111889	Strand	+
Start	10959	End	11132
Name	OJ990317_05.0421.C27.o2.np	Method	AAT/NAP
Start	10877	End	11129
GI	7106513	Score	160
Exons	10877..10915, 11016..11129		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111889	Strand	+
Start	10959	End	11132
Name	OJ990317_05.0421.C27.o5.gs	Method	GENSCAN
Start	10959	End	11132
GI	none	Score	.48
Exons	10959..11132		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111890	Strand	+
Start	15344	End	16831
Name	OJ990317_05.0421.C27.o4.np	Method	AAT/NAP
Start	15344	End	16831
GI	7228450	Score	208
Exons	15344..15456, 16300..16385, 16517..16630, 16716..16831		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111891	Strand	-
Start	1	End	217
Name	OJ990317_05.0421.C27.o1.gp	Method	AAT/GAP
Start	1	End	217
GI	568922	Score	430
Exons	1..217		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111892	Strand	-
Start	9549	End	14638
Name	OJ990317_05.0421.C27.o4.gs	Method	GENSCAN
Start	9549	End	10751
GI	none	Score	.89
Exons	9549..9812, 9900..10751		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111892	Strand	-
Start	9549	End	14638
Name	OJ990317_05.0421.C27.o1.np	Method	AAT/NAP
Start	9552	End	13443
GI	6983860	Score	2159
Exons	9552..10850, 13404..13443		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type		

(AF061282) [Oryza sativa]

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111892	Strand	-
Start	9549	End	14638
Name	OJ990317_05.0421.C27.o6.gs	Method	GENSCAN
Start	11405	End	14638
GI	none	Score	.5
Exons	11405..11515, 11595..11978, 12327..12617, 13738..13908, 13914..14041, 14176..14638		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111892	Strand	-
Start	9549	End	14638
Name	OJ990317_05.0421.C27.o3.np	Method	AAT/NAP
Start	11692	End	14517
GI	7106512	Score	1390
Exons	11692..12959, 13601..14517		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111893	Strand	-
Start	20692	End	24229
Name	OJ990317_05.0421.C27.o3.tw	Method	TBLASTX:Wheat
Start	3452	End	3855
GI	none	Score	145
Exons	3452..3613, 3586..3738, 3626..3769, 3745..3855, 3750..3854		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111893	Strand	-
Start	20692	End	24229
Name	OJ990317_05.0421.C27.o2.tm	Method	TBLASTX:Maize
Start	3482	End	3912
GI	none	Score	290
Exons	3482..3769, 3493..3741, 3503..3751, 3514..3774, 3745..3912, 3750..3911, 3811..3912		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111893	Strand	-
Start	20692	End	24229
Name	OJ990317_05.0421.C27.o1.ts	Method	TBLASTX:Soybean
Start	3652	End	4215
GI	none	Score	80
Exons	3652..3732, 3653..3787, 3745..4215, 3810..4136, 4042..4158		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111893	Strand	-
Start	20692	End	24229
Name	OJ990317_05.0421.C27.o4.tm	Method	TBLASTX:Maize
Start	3913	End	4227
GI	none	Score	369
Exons	3913..4224, 3918..4217, 3940..4227		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111893	Strand	-
Start	20692	End	24229

Name	OJ990317_05.0421.C27.o4.tw	Method	TBLASTX:Wheat
Start	9597	End	9930
GI	none	Score	125
Exons	9597..9929, 9661..9930		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111893	Strand	-
Start	20692	End	24229
Name	OJ990317_05.0421.C27.o1.tm	Method	TBLASTX:Maize
Start	9792	End	10377
GI	none	Score	118
Exons	9792..10217, 9793..9990, 10054..10218, 10215..10376, 10222..10377, 10246..10377		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111893	Strand	-
Start	20692	End	24229
Name	OJ990317_05.0421.C27.o1.tw	Method	TBLASTX:Wheat
Start	9930	End	10556
GI	none	Score	43
Exons	9930..10556, 9931..9990, 9975..10553, 10051..10554		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111893	Strand	-
Start	20692	End	24229
Name	OJ990317_05.0421.C27.o3.tm	Method	TBLASTX:Maize
Start	10425	End	10717
GI	none	Score	297
Exons	10425..10715, 10429..10713, 10611..10715, 10613..10717		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111893	Strand	-
Start	20692	End	24229
Name	OJ990317_05.0421.C27.o2.ts	Method	TBLASTX:Soybean
Start	10515	End	10764
GI	none	Score	180
Exons	10515..10763, 10516..10764, 10558..10764		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111893	Strand	-
Start	20692	End	24229
Name	OJ990317_05.0421.C27.o2.tw	Method	TBLASTX:Wheat
Start	10563	End	10845
GI	none	Score	162
Exons	10563..10793, 10563..10844, 10567..10845		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111893	Strand	-
Start	20692	End	24229
Name	OJ990317_05.0421.C27.o5.np	Method	AAT/NAP
Start	19838	End	22849
GI	2944178	Score	264
Exons	19838..19873, 21165..21305, 21390..21466, 21526..21627, 21723..21777, 22340..22468, 22564..22635, 22719..22849		
GI Descrip.	(AF007778) trehalose-6-phosphate phosphatase [Arabidopsis thaliana]		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111893	Strand	-
Start	20692	End	24229
Name	OJ990317_05.0421.C27.o5.tw	Method	TBLASTX:Wheat
Start	19861	End	22859
GI	none	Score	91
Exons	19861..19923, 22400..22462, 22401..22475, 22564..22635, 22714..22848, 22722..22859, 22722..22847, 22723..22848		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111893	Strand	-
Start	20692	End	24229
Name	OJ990317_05.0421.C27.o8.gs	Method	GENSCAN
Start	20692	End	24229
GI	none	Score	.59
Exons	20692..20805, 21168..21305, 22564..22635, 22719..22859, 22979..23125, 24122..24229		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111893	Strand	-
Start	20692	End	24229
Name	OJ990317_05.0421.C27.o1.tc	Method	TBLASTX:Cress
Start	21162	End	22863
GI	none	Score	65
Exons	21162..21230, 21168..21230, 21225..21305, 22394..22471, 22561..22635, 22725..22862, 22726..22863		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111893	Strand	-
Start	20692	End	24229
Name	OJ990317_05.0421.C27.o3.ts	Method	TBLASTX:Soybean
Start	22409	End	22848
GI	none	Score	52
Exons	22409..22471, 22561..22635, 22577..22636, 22725..22847, 22729..22848		

Seq. No.	53072	Seq. ID	OJ990317_05.0421.C27
Gene No.	111893	Strand	-
Start	20692	End	24229
Name	OJ990317_05.0421.C27.o5.tm	Method	TBLASTX:Maize
Start	22409	End	22847
GI	none	Score	49
Exons	22409..22471, 22564..22635, 22571..22636, 22725..22847, 22729..22833		

Seq. No.	53073	Seq. ID	OJ990317_05.0421.C30
Gene No.	111894	Strand	+
Start	184	End	738
Name	OJ990317_05.0421.C30.o1.gs	Method	GENSCAN
Start	184	End	738
GI	none	Score	.72
Exons	184..194, 626..738		

Seq. No.	53074	Seq. ID	OJ990317_05.0421.C37
Gene No.	111895	Strand	+
Start	1202	End	1574
Name	OJ990317_05.0421.C37.o1.gs	Method	GENSCAN

Start	1202	End	1574
GI	none	Score	.83
Exons	1202..1389, 1469..1574		

Seq. No.	53074	Seq. ID	OJ990317_05.0421.C37
Gene No.	111896	Strand	-
Start	1407	End	1664
Name	OJ990317_05.0421.C37.o1.np	Method	AAT/NAP
Start	1407	End	1664
GI	6815052	Score	176
Exons	1407..1664		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	53075	Seq. ID	OJ990317_05.0421.C38
Gene No.	111897	Strand	+
Start	864	End	1017
Name	OJ990317_05.0421.C38.o1.gs	Method	GENSCAN
Start	864	End	1017
GI	none	Score	.91
Exons	864..1017		

Seq. No.	53075	Seq. ID	OJ990317_05.0421.C38
Gene No.	111898	Strand	+
Start	2510	End	4251
Name	OJ990317_05.0421.C38.o2.gs	Method	GENSCAN
Start	2510	End	4251
GI	none	Score	.7
Exons	2510..2606, 2955..3162, 4020..4251		

Seq. No.	53075	Seq. ID	OJ990317_05.0421.C38
Gene No.	111899	Strand	-
Start	5238	End	7658
Name	OJ990317_05.0421.C38.o3.gs	Method	GENSCAN
Start	5238	End	7658
GI	none	Score	.55
Exons	5238..5325, 5584..5671, 6306..6358, 7512..7658		

Seq. No.	53076	Seq. ID	OJ990317_05.0421.C39
Gene No.	111900	Strand	+
Start	449	End	661
Name	OJ990317_05.0421.C39.o1.gs	Method	GENSCAN
Start	449	End	661
GI	none	Score	.99
Exons	449..661		

Seq. No.	53077	Seq. ID	OJ990317_05.0421.C41
Gene No.	111901	Strand	+
Start	1	End	323
Name	OJ990317_05.0421.C41.o1.np	Method	AAT/NAP
Start	1	End	323
GI	6630699	Score	69
Exons	1..54, 235..323		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	53077	Seq. ID	OJ990317_05.0421.C41

Gene No.	111902	Strand	-
Start	11	End	734
Name	OJ990317_05.0421.C41.o1.gs	Method	GENSCAN
Start	11	End	689
GI	none	Score	.95
Exons	11..169, 229..300, 438..689		

Seq. No.	53077	Seq. ID	OJ990317_05.0421.C41
Gene No.	111902	Strand	-
Start	11	End	734
Name	OJ990317_05.0421.C41.o2.np	Method	AAT/NAP
Start	462	End	734
GI	5922620	Score	174
Exons	462..595, 685..734		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53078	Seq. ID	OJ990317_05.0421.C43
Gene No.	111903	Strand	+
Start	801	End	1084
Name	OJ990317_05.0421.C43.o1.gp	Method	AAT/GAP
Start	801	End	1084
GI	none	Score	560
Exons	801..1084		

Seq. No.	53078	Seq. ID	OJ990317_05.0421.C43
Gene No.	111904	Strand	-
Start	1	End	1092
Name	OJ990317_05.0421.C43.o1.np	Method	AAT/NAP
Start	1	End	1092
GI	484643	Score	39
Exons	1..70, 230..312, 1013..1092		
GI Descrip.	proline-rich cell wall protein - carrot gi|470322 (L01775) proline-rich protein [Daucus carota]		

Seq. No.	53079	Seq. ID	OJ990317_05.0421.C44
Gene No.	111905	Strand	+
Start	31	End	4232
Name	OJ990317_05.0421.C44.o1.gs	Method	GENSCAN
Start	31	End	4232
GI	none	Score	.9
Exons	31..1161, 1260..1512, 1674..1797, 2227..2249, 3100..3202, 4106..4232		

Seq. No.	53079	Seq. ID	OJ990317_05.0421.C44
Gene No.	111906	Strand	-
Start	4979	End	5452
Name	OJ990317_05.0421.C44.o2.gs	Method	GENSCAN
Start	4979	End	5452
GI	none	Score	.91
Exons	4979..5290, 5348..5452		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111907	Strand	+

Start	270	End	1629
Name	OJ990317_05.0421.C45.o1.gs	Method	GENSCAN
Start	270	End	1629
GI	none	Score	.78
Exons	270..657, 718..918, 970..1248, 1258..1629		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111908	Strand	+
Start	8727	End	9793
Name	OJ990317_05.0421.C45.o3.gs	Method	GENSCAN
Start	8727	End	9793
GI	none	Score	.9
Exons	8727..8733, 9501..9793		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111909	Strand	+
Start	11131	End	11221
Name	OJ990317_05.0421.C45.o1.gp	Method	AAT/GAP
Start	11131	End	11221
GI	LIB3477-003-P1-K1-E9	Score	129
Exons	11131..11221		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111910	Strand	-
Start	2625	End	8379
Name	OJ990317_05.0421.C45.o1.np	Method	AAT/NAP
Start	2032	End	8379
GI	6466937	Score	1837
Exons	2032..2097, 2571..6885, 8341..8379		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111910	Strand	-
Start	2625	End	8379
Name	OJ990317_05.0421.C45.o2.np	Method	AAT/NAP
Start	2032	End	6862
GI	6466937	Score	1830
Exons	2032..2097, 2571..6862		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111910	Strand	-
Start	2625	End	8379
Name	OJ990317_05.0421.C45.o2.gs	Method	GENSCAN
Start	2625	End	7816
GI	none	Score	.54
Exons	2625..3423, 3539..4200, 4285..4621, 5030..5201, 5314..5596, 5698..6351, 6364..6561, 6626..6751, 6795..7055, 7724..7816		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111911	Strand	-
Start	10164	End	11089

Name	OJ990317_05.0421.C45.o5.tm	Method	TBLASTX:Maize
Start	520	End	6643
GI	none	Score	233
Exons	520..783, 552..785, 561..794, 6415..6642, 6416..6643		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111911	Strand	-
Start	10164	End	11089
Name	OJ990317_05.0421.C45.o6.tm	Method	TBLASTX:Maize
Start	2582	End	2921
GI	none	Score	47
Exons	2582..2815, 2587..2616, 2592..2624, 2621..2800, 2625..2885, 2628..2921		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111911	Strand	-
Start	10164	End	11089
Name	OJ990317_05.0421.C45.o2.tw	Method	TBLASTX:Wheat
Start	3018	End	3586
GI	none	Score	37
Exons	3018..3152, 3041..3127, 3219..3410, 3220..3381, 3395..3586		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111911	Strand	-
Start	10164	End	11089
Name	OJ990317_05.0421.C45.o3.tm	Method	TBLASTX:Maize
Start	3249	End	3660
GI	none	Score	74
Exons	3249..3386, 3395..3550, 3541..3660, 3542..3658		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111911	Strand	-
Start	10164	End	11089
Name	OJ990317_05.0421.C45.o3.ts	Method	TBLASTX:Soybean
Start	3446	End	3768
GI	none	Score	99
Exons	3446..3577, 3497..3736, 3550..3744, 3550..3768		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111911	Strand	-
Start	10164	End	11089
Name	OJ990317_05.0421.C45.o4.tm	Method	TBLASTX:Maize
Start	3725	End	4156
GI	none	Score	49
Exons	3725..3781, 3727..3777, 3811..4155, 3827..3967, 4007..4156		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111911	Strand	-
Start	10164	End	11089
Name	OJ990317_05.0421.C45.o3.tw	Method	TBLASTX:Wheat
Start	4090	End	4503
GI	none	Score	227
Exons	4090..4503		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111911	Strand	-
Start	10164	End	11089

Name	OJ990317_05.0421.C45.o2.tm	Method	TBLASTX:Maize
Start	4315	End	4698
GI	none	Score	40
Exons	4315..4620, 4322..4360, 4406..4570, 4618..4698		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111911	Strand	-
Start	10164	End	11089
Name	OJ990317_05.0421.C45.o1.ts	Method	TBLASTX:Soybean
Start	4534	End	4848
GI	none	Score	174
Exons	4534..4629, 4627..4848		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111911	Strand	-
Start	10164	End	11089
Name	OJ990317_05.0421.C45.o4.tw	Method	TBLASTX:Wheat
Start	4534	End	4776
GI	none	Score	109
Exons	4534..4629, 4618..4776		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111911	Strand	-
Start	10164	End	11089
Name	OJ990317_05.0421.C45.o1.tm	Method	TBLASTX:Maize
Start	4771	End	5250
GI	none	Score	211
Exons	4771..5250, 4775..5203, 4903..5214		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111911	Strand	-
Start	10164	End	11089
Name	OJ990317_05.0421.C45.o1.tw	Method	TBLASTX:Wheat
Start	4825	End	5280
GI	none	Score	186
Exons	4825..5280, 4862..5203		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111911	Strand	-
Start	10164	End	11089
Name	OJ990317_05.0421.C45.o2.ts	Method	TBLASTX:Soybean
Start	4957	End	5271
GI	none	Score	72
Exons	4957..5271, 4958..5158		

Seq. No.	53080	Seq. ID	OJ990317_05.0421.C45
Gene No.	111911	Strand	-
Start	10164	End	11089
Name	OJ990317_05.0421.C45.o4.gs	Method	GENSCAN
Start	10164	End	11089
GI	none	Score	.87
Exons	10164..10465, 11004..11089		

Seq. No.	53081	Seq. ID	OJ990317_05.0421.C46
Gene No.	111912	Strand	-
Start	115	End	1302
Name	OJ990317_05.0421.C46.o1.gs	Method	GENSCAN

Start	115	End	1302
GI	none	Score	.69
Exons	115..327, 711..798, 1102..1302		

Seq. No.	53082	Seq. ID	OJ990317_05.0421.C47
Gene No.	111913	Strand	-
Start	1	End	5162
Name	OJ990317_05.0421.C47.o1.np	Method	AAT/NAP
Start	1	End	5162
GI	4680207	Score	1161
Exons	1..47, 1403..3010, 4316..5162		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		

Seq. No.	53082	Seq. ID	OJ990317_05.0421.C47
Gene No.	111913	Strand	-
Start	1	End	5162
Name	OJ990317_05.0421.C47.o1.ts	Method	TBLASTX:Soybean
Start	1963	End	3054
GI	none	Score	93
Exons	1963..2118, 2173..2292, 2359..2532, 2552..2662, 2554..2754, 2566..2700, 2774..2866, 2806..2862, 2875..3054		

Seq. No.	53082	Seq. ID	OJ990317_05.0421.C47
Gene No.	111913	Strand	-
Start	1	End	5162
Name	OJ990317_05.0421.C47.o1.tw	Method	TBLASTX:Wheat
Start	2365	End	2661
GI	none	Score	61
Exons	2365..2526, 2415..2522, 2465..2530, 2516..2644, 2548..2661, 2554..2661		

Seq. No.	53082	Seq. ID	OJ990317_05.0421.C47
Gene No.	111913	Strand	-
Start	1	End	5162
Name	OJ990317_05.0421.C47.o1.tm	Method	TBLASTX:Maize
Start	2521	End	2754
GI	none	Score	66
Exons	2521..2754, 2548..2754		

Seq. No.	53082	Seq. ID	OJ990317_05.0421.C47
Gene No.	111913	Strand	-
Start	1	End	5162
Name	OJ990317_05.0421.C47.o2.tw	Method	TBLASTX:Wheat
Start	2872	End	3081
GI	none	Score	62
Exons	2872..3078, 2875..3081, 2975..3079		

Seq. No.	53082	Seq. ID	OJ990317_05.0421.C47
Gene No.	111913	Strand	-
Start	1	End	5162
Name	OJ990317_05.0421.C47.o2.tm	Method	TBLASTX:Maize
Start	4576	End	5064
GI	none	Score	80
Exons	4576..4659, 4687..4818, 4837..4935, 4936..5064		

Seq. No.	53083	Seq. ID	OJ990317_05.0421.C48

Gene No.	111914	Strand	-
Start	3851	End	4015
Name	OJ990317_05.0421.C48.o1.gs	Method	GENSCAN
Start	3851	End	4015
GI	none	Score	.43
Exons	3851..4015		

Seq. No.	53084	Seq. ID	OJ990317_05.0421.C49
Gene No.	111915	Strand	+
Start	1591	End	1725
Name	OJ990317_05.0421.C49.o1.gs	Method	GENSCAN
Start	1591	End	1725
GI	none	Score	.44
Exons	1591..1725		

Seq. No.	53084	Seq. ID	OJ990317_05.0421.C49
Gene No.	111916	Strand	+
Start	4791	End	5151
Name	OJ990317_05.0421.C49.o1.np	Method	AAT/NAP
Start	4791	End	5151
GI	103076	Score	129
Exons	4791..4899, 4941..5151		
GI Descrip.	Bkm-like sex-determining region hypothetical protein CS314 - fruit fly (Drosophila melanogaster) (fragment)		

Seq. No.	53084	Seq. ID	OJ990317_05.0421.C49
Gene No.	111917	Strand	-
Start	2577	End	5400
Name	OJ990317_05.0421.C49.o2.gs	Method	GENSCAN
Start	2577	End	5400
GI	none	Score	.61
Exons	2577..2748, 5339..5400		

Seq. No.	53085	Seq. ID	OJ990317_05.0421.C50
Gene No.	111918	Strand	+
Start	149	End	1122
Name	OJ990317_05.0421.C50.o1.gs	Method	GENSCAN
Start	149	End	1122
GI	none	Score	.63
Exons	149..514, 681..1122		

Seq. No.	53085	Seq. ID	OJ990317_05.0421.C50
Gene No.	111919	Strand	-
Start	1	End	1299
Name	OJ990317_05.0421.C50.o1.np	Method	AAT/NAP
Start	1	End	1299
GI	4680184	Score	628
Exons	1..813, 857..1299		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	53085	Seq. ID	OJ990317_05.0421.C50
Gene No.	111920	Strand	-
Start	1441	End	7848
Name	OJ990317_05.0421.C50.o3.np	Method	AAT/NAP
Start	1441	End	7848
GI	4680207	Score	719
Exons	1441..1477, 4525..5991, 7122..7339, 7657..7848		

GI Descrip. (AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]

Seq. No.	53085	Seq. ID	OJ990317_05.0421.C50
Gene No.	111920	Strand	-
Start	1441	End	7848
Name	OJ990317_05.0421.C50.o2.np	Method	AAT/NAP
Start	1706	End	3426
GI	4680186	Score	331
Exons	1706..1808, 2476..2769, 3273..3426		

GI Descrip. (AF111709) unknown [Oryza sativa subsp. indica]

Seq. No.	53085	Seq. ID	OJ990317_05.0421.C50
Gene No.	111920	Strand	-
Start	1441	End	7848
Name	OJ990317_05.0421.C50.o2.gs	Method	GENSCAN
Start	2195	End	7733
GI	none	Score	.51
Exons	2195..2315, 2614..2724, 3241..3431, 4200..4326, 4528..4609, 4829..6075, 7122..7339, 7498..7545, 7597..7733		

Seq. No.	53085	Seq. ID	OJ990317_05.0421.C50
Gene No.	111920	Strand	-
Start	1441	End	7848
Name	OJ990317_05.0421.C50.o1.tc	Method	TBLASTX:Cress
Start	5340	End	7339
GI	none	Score	58
Exons	5340..5420, 5541..5714, 5748..5885, 5976..6077, 7199..7279, 7295..7339		

Seq. No.	53085	Seq. ID	OJ990317_05.0421.C50
Gene No.	111920	Strand	-
Start	1441	End	7848
Name	OJ990317_05.0421.C50.o1.tw	Method	TBLASTX:Wheat
Start	5346	End	5642
GI	none	Score	60
Exons	5346..5507, 5391..5507, 5508..5642, 5539..5628		

Seq. No.	53085	Seq. ID	OJ990317_05.0421.C50
Gene No.	111920	Strand	-
Start	1441	End	7848
Name	OJ990317_05.0421.C50.o1.tm	Method	TBLASTX:Maize
Start	5352	End	5828
GI	none	Score	82
Exons	5352..5507, 5358..5507, 5535..5666, 5536..5643, 5691..5828		

Seq. No.	53085	Seq. ID	OJ990317_05.0421.C50
Gene No.	111920	Strand	-
Start	1441	End	7848
Name	OJ990317_05.0421.C50.o1.ts	Method	TBLASTX:Soybean
Start	5361	End	6047
GI	none	Score	71
Exons	5361..5510, 5533..5667, 5535..5738, 5715..5846, 5758..5826, 5862..6047		

Seq. No.	53085	Seq. ID	OJ990317_05.0421.C50
Gene No.	111920	Strand	-

Start	1441	End	7848
Name	OJ990317_05.0421.C50.o2.tw	Method	TBLASTX:Wheat
Start	5856	End	6063
GI	none	Score	96
Exons	5856..6062, 5956..6063		

Seq. No.	53086	Seq. ID	OJ990317_05.0421.C51
Gene No.	111921	Strand	-
Start	1	End	897
Name	OJ990317_05.0421.C51.o1.np	Method	AAT/NAP
Start	1	End	897
GI	4680207	Score	200
Exons	1..343, 877..897		
GI Descrip.	(AF114171) disease resistance protein RPM1 homolog [Sorghum bicolor]		

Seq. No.	53087	Seq. ID	OJ990317_05.0421.C58
Gene No.	111922	Strand	+
Start	12	End	182
Name	OJ990317_05.0421.C58.o1.gs	Method	GENSCAN
Start	12	End	182
GI	none	Score	.9
Exons	12..182		

Seq. No.	53088	Seq. ID	OJ990317_05.0421.C61
Gene No.	111923	Strand	+
Start	545	End	835
Name	OJ990317_05.0421.C61.o1.gs	Method	GENSCAN
Start	545	End	835
GI	none	Score	.8
Exons	545..835		

Seq. No.	53088	Seq. ID	OJ990317_05.0421.C61
Gene No.	111924	Strand	+
Start	1171	End	1780
Name	OJ990317_05.0421.C61.o3.np	Method	AAT/NAP
Start	1108	End	1780
GI	5922620	Score	190
Exons	1108..1146, 1186..1340, 1735..1780		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53088	Seq. ID	OJ990317_05.0421.C61
Gene No.	111924	Strand	+
Start	1171	End	1780
Name	OJ990317_05.0421.C61.o2.gs	Method	GENSCAN
Start	1171	End	1369
GI	none	Score	.8
Exons	1171..1299, 1345..1369		

Seq. No.	53088	Seq. ID	OJ990317_05.0421.C61
Gene No.	111925	Strand	-
Start	1	End	844
Name	OJ990317_05.0421.C61.o1.np	Method	AAT/NAP

Start	1	End	844
GI	6539570	Score	157
Exons	1..70, 328..394, 641..844		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	53088	Seq. ID	OJ990317_05.0421.C61
Gene No.	111926	Strand	-
Start	970	End	1780
Name	OJ990317_05.0421.C61.o2.np	Method	AAT/NAP
Start	970	End	1780
GI	6630699	Score	82
Exons	970..1138, 1753..1780		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	53089	Seq. ID	OJ990317_05.0421.C62
Gene No.	111927	Strand	+
Start	213	End	2951
Name	OJ990317_05.0421.C62.o1.gs	Method	GENSCAN
Start	213	End	2951
GI	none	Score	.49
Exons	213..376, 572..882, 915..1058, 1106..1145, 1319..1403, 2623..2951		

Seq. No.	53089	Seq. ID	OJ990317_05.0421.C62
Gene No.	111927	Strand	+
Start	213	End	2951
Name	OJ990317_05.0421.C62.o1.np	Method	AAT/NAP
Start	420	End	2948
GI	5922620	Score	722
Exons	420..529, 771..882, 967..1129, 1177..1403, 2818..2948		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53089	Seq. ID	OJ990317_05.0421.C62
Gene No.	111928	Strand	+
Start	4121	End	4729
Name	OJ990317_05.0421.C62.o2.gs	Method	GENSCAN
Start	4121	End	4729
GI	none	Score	.42
Exons	4121..4147, 4661..4729		

Seq. No.	53089	Seq. ID	OJ990317_05.0421.C62
Gene No.	111929	Strand	+
Start	4796	End	6140
Name	OJ990317_05.0421.C62.o3.np	Method	AAT/NAP
Start	4796	End	6140
GI	6630699	Score	70
Exons	4796..4866, 6060..6140		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	53089	Seq. ID	OJ990317_05.0421.C62
Gene No.	111930	Strand	+
Start	6276	End	9451
Name	OJ990317_05.0421.C62.o4.np	Method	AAT/NAP
Start	6276	End	9206
GI	6539570	Score	182
Exons	6276..6470, 6698..6764, 7742..7803, 9171..9206		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	53089	Seq. ID	OJ990317_05.0421.C62
Gene No.	111930	Strand	+
Start	6276	End	9451
Name	OJ990317_05.0421.C62.o5.np	Method	AAT/NAP
Start	8348	End	9451
GI	6815053	Score	664
Exons	8348..8494, 8993..9162, 9208..9451		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	53089	Seq. ID	OJ990317_05.0421.C62
Gene No.	111931	Strand	-
Start	3086	End	3163
Name	OJ990317_05.0421.C62.o2.np	Method	AAT/NAP
Start	3086	End	3163
GI	6630699	Score	70
Exons	3086..3163		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	53089	Seq. ID	OJ990317_05.0421.C62
Gene No.	111932	Strand	-
Start	5410	End	13459
Name	OJ990317_05.0421.C62.o3.gs	Method	GENSCAN
Start	5410	End	13459
GI	none	Score	.62
Exons	5410..5534, 5758..5986, 6046..6117, 6255..6644, 7735..7898, 7960..8136, 9090..9213, 11200..11441, 12346..12585, 12699..12758, 13387..13459		

Seq. No.	53089	Seq. ID	OJ990317_05.0421.C62
Gene No.	111932	Strand	-
Start	5410	End	13459
Name	OJ990317_05.0421.C62.o6.np	Method	AAT/NAP
Start	11897	End	12153
GI	6539570	Score	31
Exons	11897..12153		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	53090	Seq. ID	OJ990317_05.0421.C63
Gene No.	111933	Strand	+
Start	445	End	1755
Name	OJ990317_05.0421.C63.o1.gs	Method	GENSCAN
Start	445	End	1755
GI	none	Score	.69
Exons	445..489, 1146..1529, 1699..1755		

Seq. No.	53090	Seq. ID	OJ990317_05.0421.C63

Gene No.	111934	Strand	+
Start	5259	End	15296
Name	OJ990317_05.0421.C63.o1.gp	Method	AAT/GAP
Start	5222	End	5325
GI	none	Score	178
Exons	5222..5325		

Seq. No.	53090	Seq. ID	OJ990317_05.0421.C63
Gene No.	111934	Strand	+
Start	5259	End	15296
Name	OJ990317_05.0421.C63.o1.np	Method	AAT/NAP
Start	5247	End	15073
GI	5923675	Score	1523
Exons	5247..5369, 5838..5964, 6099..6250, 6742..6825, 6909..6989, 8307..8420, 8500..8703, 10223..10372, 11776..11941, 12018..12151, 12839..12946, 13037..13135, 14108..14197, 14282..14398, 14868..15073		
GI Descrip.	(AC009326) putative mRNA capping enzyme, RNA guanylyltransferase [Arabidopsis thaliana]		

Seq. No.	53090	Seq. ID	OJ990317_05.0421.C63
Gene No.	111934	Strand	+
Start	5259	End	15296
Name	OJ990317_05.0421.C63.o3.gs	Method	GENSCAN
Start	5259	End	15047
GI	none	Score	.94
Exons	5259..5369, 5826..5964, 6099..6250, 6742..6825, 6909..6971, 8283..8420, 8500..8706, 10241..10357, 10827..10876, 11778..11940, 12029..12151, 13037..13135, 14108..14197, 14282..14366, 14869..15047		

Seq. No.	53090	Seq. ID	OJ990317_05.0421.C63
Gene No.	111934	Strand	+
Start	5259	End	15296
Name	OJ990317_05.0421.C63.o2.gp	Method	AAT/GAP
Start	8604	End	13110
GI	22028_1.R1084	Score	1275
Exons	8604..8706, 10241..10357, 10827..10876, 11778..11940, 12029..12151, 12839..12946, 13037..13110		
GI Descrip.	'5923675/gb|AAD56326.1|AC009326_13 6.0e-65 (AC009326) putative mRNA capping enzyme, RNA guanylyltransferase [Arabidopsis thaliana]'		

Seq. No.	53090	Seq. ID	OJ990317_05.0421.C63
Gene No.	111934	Strand	+
Start	5259	End	15296
Name	OJ990317_05.0421.C63.o3.gp	Method	AAT/GAP
Start	14280	End	15296
GI	uC-osf1M202048b01b1	Score	986
Exons	14280..14366, 14869..15296		
GI Descrip.	'5923675/gb|AAD56326.1|AC009326_13 5.0e-16 (AC009326) putative mRNA capping enzyme, RNA guanylyltransferase [Arabidopsis thaliana]'		

Seq. No.	53090	Seq. ID	OJ990317_05.0421.C63
Gene No.	111935	Strand	-
Start	2777	End	3484

Name	OJ990317_05.0421.C63.o2.gs	Method	GENSCAN
Start	2777	End	3484
GI	none	Score	.94
Exons	2777..3050, 3123..3484		

Seq. No.	53090	Seq. ID	OJ990317_05.0421.C63
Gene No.	111936	Strand	
Start	5259	End	6971
Name	OJ990317_05.0421.C63.o2.tm	Method	TBLASTX:Maize
Start	5259	End	6971
GI	none	Score	58
Exons	5259..5300, 5286..5369, 5797..5934, 5934..5966, 6090..6242, 6097..6195, 6098..6253, 6099..6242, 6737..6826, 6739..6828, 6741..6818, 6742..6828, 6908..6961, 6909..6971		

Seq. No.	53090	Seq. ID	OJ990317_05.0421.C63
Gene No.	111937	Strand	
Start	8280	End	15634
Name	OJ990317_05.0421.C63.o1.tm	Method	TBLASTX:Maize
Start	8280	End	11927
GI	none	Score	141
Exons	8280..8420, 8282..8407, 8285..8425, 8286..8420, 8305..8421, 8486..8596, 8491..8628, 8499..8597, 8500..8679, 8595..8639, 8596..8700, 10222..10344, 10223..10348, 10830..10874, 11762..11923, 11775..11927, 11776..11922		

Seq. No.	53090	Seq. ID	OJ990317_05.0421.C63
Gene No.	111937	Strand	
Start	8280	End	15634
Name	OJ990317_05.0421.C63.o1.ts	Method	TBLASTX:Soybean
Start	8512	End	15634
GI	none	Score	99
Exons	8512..8610, 8572..8682, 8586..8636, 8601..8690, 10226..10348, 10830..10877, 11756..11938, 11775..11939, 11779..11940, 12035..12085, 12095..12151, 12902..12949, 13036..13131, 13037..13135, 14106..14198, 14107..14199, 14108..14200, 14252..14362, 14868..14999, 14891..15007, 15566..15634		

Seq. No.	53090	Seq. ID	OJ990317_05.0421.C63
Gene No.	111937	Strand	
Start	8280	End	15634
Name	OJ990317_05.0421.C63.o1.tc	Method	TBLASTX:Cress
Start	8524	End	11832
GI	none	Score	103
Exons	8524..8610, 8587..8679, 10244..10342, 10827..10877, 11775..11831, 11779..11832		

Seq. No.	53090	Seq. ID	OJ990317_05.0421.C63
Gene No.	111937	Strand	
Start	8280	End	15634
Name	OJ990317_05.0421.C63.o1.tw	Method	TBLASTX:Wheat
Start	11759	End	12935
GI	none	Score	162
Exons	11759..11926, 11774..11920, 11775..11939, 11776..11940, 12028..12150, 12029..12196, 12821..12904, 12836..12892, 12906..12935, 12909..12935		

Seq. No.	53090	Seq. ID	OJ990317_05.0421.C63
Gene No.	111937	Strand	
Start	8280	End	15634
Name	OJ990317_05.0421.C63.o3.tm	Method	TBLASTX:Maize
Start	12861	End	15631
GI	none	Score	58
Exons	12861..12944, 12888..12947, 13036..13131, 13037..13135, 14105..14197, 14106..14195, 14107..14199, 14108..14200, 14273..14356, 14283..14354, 14288..14362, 14290..14421, 14868..14999, 14879..14989, 14895..14999, 15566..15631		

Seq. No.	53091	Seq. ID	OJ990317_05.0421.C64
Gene No.	111938	Strand	-
Start	7586	End	8775
Name	OJ990317_05.0421.C64.o1.ts	Method	TBLASTX:Soybean
Start	4408	End	5033
GI	none	Score	68
Exons	4408..4830, 4411..4476, 4525..4836, 4908..5033		

Seq. No.	53091	Seq. ID	OJ990317_05.0421.C64
Gene No.	111938	Strand	-
Start	7586	End	8775
Name	OJ990317_05.0421.C64.o1.tm	Method	TBLASTX:Maize
Start	4469	End	6986
GI	none	Score	234
Exons	4469..4735, 4471..4839, 4475..4840, 4522..4842, 4782..4844, 4896..5072, 4908..5072, 4924..5073, 4928..5077, 6715..6759, 6892..6984, 6899..6985, 6903..6986		

Seq. No.	53091	Seq. ID	OJ990317_05.0421.C64
Gene No.	111938	Strand	-
Start	7586	End	8775
Name	OJ990317_05.0421.C64.o1.tw	Method	TBLASTX:Wheat
Start	4729	End	6809
GI	none	Score	127
Exons	4729..4839, 4732..4839, 4914..5072, 4920..5072, 4922..5077, 6713..6793, 6713..6796, 6714..6809		

Seq. No.	53091	Seq. ID	OJ990317_05.0421.C64
Gene No.	111938	Strand	-
Start	7586	End	8775
Name	OJ990317_05.0421.C64.o2.gs	Method	GENSCAN
Start	7586	End	8775
GI	none	Score	.53
Exons	7586..7680, 8712..8775		

Seq. No.	53092	Seq. ID	OJ990317_05.0421.C65
Gene No.	111939	Strand	+
Start	1635	End	6127
Name	OJ990317_05.0421.C65.o1.gs	Method	GENSCAN
Start	1635	End	6127
GI	none	Score	.9
Exons	1635..1658, 2376..2423, 5810..6127		

Seq. No.	53092	Seq. ID	OJ990317_05.0421.C65
Gene No.	111939	Strand	+
Start	1635	End	6127

Name	OJ990317_05.0421.C65.o2.np	Method	AAT/NAP
Start	5441	End	6124
GI	124121	Score	175
Exons	5441..5522, 5931..6124		
GI Descrip.	SUBTILISIN INHIBITORS I AND II (ASI-I AND ASI-II)		

Seq. No.	53092	Seq. ID	OJ990317_05.0421.C65
Gene No.	111940	Strand	-
Start	2537	End	4223
Name	OJ990317_05.0421.C65.o1.np	Method	AAT/NAP
Start	2537	End	4223
GI	82523	Score	245
Exons	2537..2909, 4165..4223		
GI Descrip.	hypothetical 29K protein (trnH-trnV intergenic region) - rice chloroplast gi|12034|emb|CAA33940| (X15901) ORF249 [Oryza sativa] gi|12068|emb|CAA33921| (X15901) ORF249 [Oryza sativa] gi|226655|prf||1603356CF ORF 249 [Oryza sativa]		

Seq. No.	53092	Seq. ID	OJ990317_05.0421.C65
Gene No.	111941	Strand	-
Start	6597	End	7706
Name	OJ990317_05.0421.C65.o2.gs	Method	GENSCAN
Start	6597	End	7706
GI	none	Score	.54
Exons	6597..6678, 6816..7255, 7257..7312, 7388..7706		

Seq. No.	53092	Seq. ID	OJ990317_05.0421.C65
Gene No.	111942	Strand	-
Start	11262	End	12347
Name	OJ990317_05.0421.C65.o1.tm	Method	TBLASTX:Maize
Start	5927	End	6129
GI	none	Score	251
Exons	5927..6127, 5929..6129		

Seq. No.	53092	Seq. ID	OJ990317_05.0421.C65
Gene No.	111942	Strand	-
Start	11262	End	12347
Name	OJ990317_05.0421.C65.o3.gs	Method	GENSCAN
Start	11262	End	12347
GI	none	Score	.97
Exons	11262..11995, 12296..12347		

Seq. No.	53093	Seq. ID	OJ990317_05.0421.C66
Gene No.	111943	Strand	-
Start	2707	End	2807
Name	OJ990317_05.0421.C66.o1.gp	Method	AAT/GAP
Start	2707	End	2807
GI	LIB3477-003-P1-K1-E9	Score	122
Exons	2707..2807		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	53094	Seq. ID	OJ990317_05.0421.C73
Gene No.	111944	Strand	-
Start	122	End	418
Name	OJ990317_05.0421.C73.o1.gs	Method	GENSCAN

Start	122	End	418
GI	none	Score	.71
Exons	122..265, 346..418		

Seq. No.	53095	Seq. ID	OJ990317_05.0421.C74
Gene No.	111945	Strand	+
Start	1	End	712
Name	OJ990317_05.0421.C74.o1.np	Method	AAT/NAP
Start	1	End	712
GI	7428021	Score	291
Exons	1..187, 379..712		
GI Descrip.	S-receptor kinase (EC 2.7.1.-) T6K22.120 precursor - Arabidopsis thaliana gi|3402758|emb|CAA20204.1| (AL031187) serine/threonine kinase-like protein [Arabidopsis thaliana] gi|7268936|emb|CAB81246.1| (AL161555) serine/threonine kinase-like protein [Arabidopsis thaliana]		

Seq. No.	53095	Seq. ID	OJ990317_05.0421.C74
Gene No.	111945	Strand	+
Start	1	End	712
Name	OJ990317_05.0421.C74.o1.ts	Method	TBLASTX:Soybean
Start	137	End	589
GI	none	Score	76
Exons	137..184, 145..186, 145..180, 387..581, 388..588, 509..589		

Seq. No.	53095	Seq. ID	OJ990317_05.0421.C74
Gene No.	111945	Strand	+
Start	1	End	712
Name	OJ990317_05.0421.C74.o1.tc	Method	TBLASTX:Cress
Start	376	End	612
GI	none	Score	257
Exons	376..573, 378..593, 379..612		

Seq. No.	53095	Seq. ID	OJ990317_05.0421.C74
Gene No.	111945	Strand	+
Start	1	End	712
Name	OJ990317_05.0421.C74.o1.tm	Method	TBLASTX:Maize
Start	378	End	588
GI	none	Score	283
Exons	378..587, 379..588		

Seq. No.	53095	Seq. ID	OJ990317_05.0421.C74
Gene No.	111945	Strand	+
Start	1	End	712
Name	OJ990317_05.0421.C74.o1.tw	Method	TBLASTX:Wheat
Start	378	End	588
GI	none	Score	235
Exons	378..581, 379..588		

Seq. No.	53096	Seq. ID	OJ990317_05.0421.C79
Gene No.	111946	Strand	+
Start	1	End	396
Name	OJ990317_05.0421.C79.o1.gp	Method	AAT/GAP
Start	1	End	396
GI	uC-osf1cyp152a05a1	Score	612
Exons	1..27, 104..396		
GI Descrip.	'3850821/emb|CAA77135| 1.0e-33 (Y18350) U2 snRNP auxiliary		

factor, large subunit [Nicotiana plumbaginifolia]'

Seq. No.	53096	Seq. ID	OJ990317_05.0421.C79
Gene No.	111946	Strand	+
Start	1	End	396
Name	OJ990317_05.0421.C79.o1.tc	Method	TBLASTX:Cress
Start	1	End	250
GI	none	Score	47
Exons	1..42, 3..41, 101..250, 101..217, 103..228		

Seq. No.	53096	Seq. ID	OJ990317_05.0421.C79
Gene No.	111946	Strand	+
Start	1	End	396
Name	OJ990317_05.0421.C79.o1.ts	Method	TBLASTX:Soybean
Start	1	End	244
GI	none	Score	46
Exons	1..42, 3..41, 100..216, 101..244		

Seq. No.	53096	Seq. ID	OJ990317_05.0421.C79
Gene No.	111946	Strand	+
Start	1	End	396
Name	OJ990317_05.0421.C79.o1.np	Method	AAT/NAP
Start	1	End	238
GI	3850823	Score	184
Exons	1..27, 104..238		
GI Descrip.	(Y18351) U2 snRNP auxiliary factor, large subunit [Nicotiana plumbaginifolia]		

Seq. No.	53096	Seq. ID	OJ990317_05.0421.C79
Gene No.	111946	Strand	+
Start	1	End	396
Name	OJ990317_05.0421.C79.o1.tm	Method	TBLASTX:Maize
Start	6	End	240
GI	none	Score	46
Exons	6..29, 6..41, 7..42, 100..240, 101..235, 102..236		

Seq. No.	53096	Seq. ID	OJ990317_05.0421.C79
Gene No.	111946	Strand	+
Start	1	End	396
Name	OJ990317_05.0421.C79.o1.gs	Method	GENSCAN
Start	104	End	241
GI	none	Score	.95
Exons	104..241		

Seq. No.	53097	Seq. ID	OJ990317_05.0421.C82
Gene No.	111947	Strand	+
Start	161	End	757
Name	OJ990317_05.0421.C82.o1.gs	Method	GENSCAN
Start	161	End	757
GI	none	Score	.88
Exons	161..757		

Seq. No.	53097	Seq. ID	OJ990317_05.0421.C82
Gene No.	111947	Strand	+
Start	161	End	757
Name	OJ990317_05.0421.C82.o1.tm	Method	TBLASTX:Maize
Start	281	End	742

GI	none	Score	46
Exons	281..313, 380..493, 484..567,	485..583,	485..583, 677..742

Seq. No.	53098	Seq. ID	OJ990317_05.0421.C83
Gene No.	111948	Strand	+
Start	134	End	802
Name	OJ990317_05.0421.C83.o1.gs	Method	GENSCAN
Start	134	End	802
GI	none	Score	.91
Exons	134..215, 705..802		

Seq. No.	53098	Seq. ID	OJ990317_05.0421.C83
Gene No.	111949	Strand	-
Start	1	End	798
Name	OJ990317_05.0421.C83.o1.np	Method	AAT/NAP
Start	1	End	798
GI	5852175	Score	86
Exons	1..185, 746..798		
GI Descrip.	(AL117265) zhb0005.1 [Oryza sativa]		

Seq. No.	53098	Seq. ID	OJ990317_05.0421.C83
Gene No.	111949	Strand	-
Start	1	End	798
Name	OJ990317_05.0421.C83.o1.gp	Method	AAT/GAP
Start	187	End	562
GI	2427387	Score	643
Exons	187..562		
GI Descrip.	5852170/emb|AL117265.1|OST17804 3.0e-94 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	53099	Seq. ID	OJ990317_05.0421.C94
Gene No.	111950	Strand	+
Start	1	End	734
Name	OJ990317_05.0421.C94.o1.np	Method	AAT/NAP
Start	1	End	734
GI	6069646	Score	599
Exons	1..58, 339..734		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	53099	Seq. ID	OJ990317_05.0421.C94
Gene No.	111950	Strand	+
Start	1	End	734
Name	OJ990317_05.0421.C94.o1.tm	Method	TBLASTX:Maize
Start	45	End	420
GI	none	Score	76
Exons	45..137, 196..420, 210..410		

Seq. No.	53099	Seq. ID	OJ990317_05.0421.C94
Gene No.	111950	Strand	+
Start	1	End	734
Name	OJ990317_05.0421.C94.o1.gs	Method	GENSCAN
Start	171	End	701
GI	none	Score	.4

Exons	171..324, 415..701		
Seq. No.	53099	Seq. ID	OJ990317_05.0421.C94
Gene No.	111950	Strand	+
Start	1	End	734
Name	OJ990317_05.0421.C94.o2.tm	Method	TBLASTX:Maize
Start	502	End	728
GI	none	Score	196
Exons	502..720, 504..728		
Seq. No.	53100	Seq. ID	OJ990317_05.0421.C97
Gene No.	111951	Strand	+
Start	604	End	658
Name	OJ990317_05.0421.C97.o1.gs	Method	GENSCAN
Start	604	End	658
GI	none	Score	.63
Exons	604..658		
Seq. No.	53101	Seq. ID	OJ990317_05.0421.C99
Gene No.	111952	Strand	+
Start	1	End	718
Name	OJ990317_05.0421.C99.o1.np	Method	AAT/NAP
Start	1	End	718
GI	7489728	Score	352
Exons	1..718		
GI Descrip.	embryogenesis transmembrane protein - maize gi|1628482|emb|CAA66183.1| (X97570) embryogenesis transmembrane protein [Zea mays]		
Seq. No.	53101	Seq. ID	OJ990317_05.0421.C99
Gene No.	111952	Strand	+
Start	1	End	718
Name	OJ990317_05.0421.C99.o1.tm	Method	TBLASTX:Maize
Start	173	End	457
GI	none	Score	339
Exons	173..400, 175..435, 176..457, 213..437		
Seq. No.	53101	Seq. ID	OJ990317_05.0421.C99
Gene No.	111952	Strand	+
Start	1	End	718
Name	OJ990317_05.0421.C99.o1.gs	Method	GENSCAN
Start	195	End	667
GI	none	Score	.86
Exons	195..667		
Seq. No.	53102	Seq. ID	OJ990527_05.0419.C6
Gene No.	111953	Strand	+
Start	130	End	457
Name	OJ990527_05.0419.C6.o1.gs	Method	GENSCAN
Start	130	End	457
GI	none	Score	.41
Exons	130..187, 255..457		
Seq. No.	53103	Seq. ID	OJ990317_04.0421.C2
Gene No.	111954	Strand	+
Start	1	End	710
Name	OJ990317_04.0421.C2.o1.np	Method	AAT/NAP

Start	1	End	710
GI	5902445	Score	1260
Exons	1..710		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	53103	Seq. ID	OJ990317_04.0421.C2
Gene No.	111954	Strand	+
Start	1	End	710
Name	OJ990317_04.0421.C2.o1.tm	Method	TBLASTX:Maize
Start	48	End	411
GI	none	Score	446
Exons	48..359, 49..372, 363..410, 364..411		

Seq. No.	53103	Seq. ID	OJ990317_04.0421.C2
Gene No.	111954	Strand	+
Start	1	End	710
Name	OJ990317_04.0421.C2.o1.tw	Method	TBLASTX:Wheat
Start	54	End	441
GI	none	Score	420
Exons	54..365, 55..441, 256..441		

Seq. No.	53103	Seq. ID	OJ990317_04.0421.C2
Gene No.	111954	Strand	+
Start	1	End	710
Name	OJ990317_04.0421.C2.o2.tw	Method	TBLASTX:Wheat
Start	472	End	710
GI	none	Score	200
Exons	472..708, 504..710		

Seq. No.	53104	Seq. ID	OJ990317_04.0421.C5
Gene No.	111955	Strand	-
Start	1	End	708
Name	OJ990317_04.0421.C5.o1.np	Method	AAT/NAP
Start	1	End	708
GI	6691716	Score	340
Exons	1..193, 344..447, 523..708		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	53104	Seq. ID	OJ990317_04.0421.C5
Gene No.	111955	Strand	-
Start	1	End	708
Name	OJ990317_04.0421.C5.o1.gs	Method	GENSCAN
Start	81	End	621
GI	none	Score	.64
Exons	81..185, 258..447, 523..621		

Seq. No.	53105	Seq. ID	OJ990317_04.0421.C8
Gene No.	111956	Strand	-
Start	108	End	540
Name	OJ990317_04.0421.C8.o1.gs	Method	GENSCAN
Start	108	End	540
GI	none	Score	.82
Exons	108..296, 370..540		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12

Gene No.	111957	Strand	+
Start	1	End	5860
Name	OJ990317_04.0421.C12.o1.np	Method	AAT/NAP
Start	1	End	2209
GI	6572067	Score	221
Exons	1..385, 644..735, 835..875, 1061..1140, 1764..1857, 2032..2209		
GI Descrip.	(AL133452) putative protein [Arabidopsis thaliana]		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111957	Strand	+
Start	1	End	5860
Name	OJ990317_04.0421.C12.o1.gs	Method	GENSCAN
Start	852	End	5860
GI	none	Score	.94
Exons	852..957, 1061..1133, 1764..1857, 2032..2121, 3388..3576, 5244..5387, 5423..5860		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111957	Strand	+
Start	1	End	5860
Name	OJ990317_04.0421.C12.o1.gp	Method	AAT/GAP
Start	3406	End	3708
GI	none	Score	558
Exons	3406..3708		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111958	Strand	+
Start	7228	End	9178
Name	OJ990317_04.0421.C12.o3.gs	Method	GENSCAN
Start	7228	End	9178
GI	none	Score	.49
Exons	7228..7510, 8091..8214, 8310..8491, 8898..9178		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111959	Strand	+
Start	18866	End	19304
Name	OJ990317_04.0421.C12.o3.np	Method	AAT/NAP
Start	18866	End	19304
GI	6539570	Score	125
Exons	18866..19068, 19238..19304		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111960	Strand	-
Start	6247	End	6631
Name	OJ990317_04.0421.C12.o2.gs	Method	GENSCAN
Start	6247	End	6631
GI	none	Score	.54
Exons	6247..6560, 6565..6631		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111961	Strand	-
Start	9899	End	13536
Name	OJ990317_04.0421.C12.o2.np	Method	AAT/NAP
Start	9807	End	13536
GI	6006864	Score	1156
Exons	9807..10141, 10639..10791, 11016..11221, 11318..11558,		

	11767..11900, 12187..13241, 13278..13536
GI Descrip.	(AC009540) hypothetical protein [Arabidopsis thaliana]

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111961	Strand	-
Start	9899	End	13536
Name	OJ990317_04.0421.C12.o4.gs	Method	GENSCAN
Start	9899	End	13525
GI	none	Score	.92
Exons	9899..10135, 10639..10741, 10846..10892, 11010..11221, 11318..11558, 11767..11900, 12187..13525		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111962	Strand	-
Start	19332	End	22323
Name	OJ990317_04.0421.C12.o4.tm	Method	TBLASTX:Maize
Start	846	End	2094
GI	none	Score	124
Exons	846..956, 846..956, 847..957, 847..987, 1060..1134, 1061..1135, 1062..1136, 1063..1137, 1756..1857, 1764..1859, 1764..1859, 2011..2094, 2032..2094		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111962	Strand	-
Start	19332	End	22323
Name	OJ990317_04.0421.C12.o5.tm	Method	TBLASTX:Maize
Start	6018	End	8014
GI	none	Score	74
Exons	6018..6101, 7584..7691, 7689..7823, 7808..8014		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111962	Strand	-
Start	19332	End	22323
Name	OJ990317_04.0421.C12.o3.tc	Method	TBLASTX:Cress
Start	9917	End	10171
GI	none	Score	78
Exons	9917..10057, 9929..10171, 9930..10076		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111962	Strand	-
Start	19332	End	22323
Name	OJ990317_04.0421.C12.o3.tm	Method	TBLASTX:Maize
Start	11007	End	11220
GI	none	Score	130
Exons	11007..11108, 11008..11112, 11127..11216, 11127..11216, 11128..11220, 11128..11220		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111962	Strand	-
Start	19332	End	22323
Name	OJ990317_04.0421.C12.o2.ts	Method	TBLASTX:Soybean
Start	11028	End	11391
GI	none	Score	157
Exons	11028..11222, 11029..11223, 11316..11390, 11317..11391		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111962	Strand	-

Start	19332	End	22323
Name	OJ990317_04.0421.C12.o1.tc	Method	TBLASTX:Cress
Start	11088	End	11902
GI	none	Score	65
Exons	11088..11219, 11110..11199, 11314..11403, 11319..11402, 11403..11558, 11404..11553, 11407..11568, 11773..11901, 11783..11902		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111962	Strand	-
Start	19332	End	22323
Name	OJ990317_04.0421.C12.o2.tm	Method	TBLASTX:Maize
Start	11484	End	12557
GI	none	Score	112
Exons	11484..11561, 11485..11559, 11485..11565, 11487..11561, 11762..11842, 11764..11844, 11765..11842, 11767..11844, 11836..11901, 11858..11902, 12186..12557, 12191..12301, 12365..12535, 12369..12557		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111962	Strand	-
Start	19332	End	22323
Name	OJ990317_04.0421.C12.o2.tc	Method	TBLASTX:Cress
Start	12431	End	13210
GI	none	Score	76
Exons	12431..12760, 12494..12535, 12587..12754, 12590..12772, 12641..12745, 12773..13210, 12794..13060, 12842..13078, 12909..13013, 12990..13103		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111962	Strand	-
Start	19332	End	22323
Name	OJ990317_04.0421.C12.o1.ts	Method	TBLASTX:Soybean
Start	12443	End	13171
GI	none	Score	104
Exons	12443..13000, 12860..13171, 12968..13150, 12969..13148		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111962	Strand	-
Start	19332	End	22323
Name	OJ990317_04.0421.C12.o1.tm	Method	TBLASTX:Maize
Start	12590	End	13237
GI	none	Score	137
Exons	12590..12763, 12590..12760, 12734..13237, 12846..13226		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111962	Strand	-
Start	19332	End	22323
Name	OJ990317_04.0421.C12.o4.np	Method	AAT/NAP
Start	18878	End	22323
GI	5922620	Score	156
Exons	18878..19031, 20475..20844, 22155..22323		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53106	Seq. ID	OJ990317_04.0421.C12
Gene No.	111962	Strand	-
Start	19332	End	22323
Name	OJ990317_04.0421.C12.o6.gs	Method	GENSCAN
Start	19332	End	21832
GI	none	Score	.5
Exons	19332..19712, 20573..20672, 20770..20868, 20932..21089, 21167..21399, 21573..21832		

Seq. No.	53107	Seq. ID	OJ990317_04.0421.C13
Gene No.	111963	Strand	+
Start	531	End	3238
Name	OJ990317_04.0421.C13.o1.np	Method	AAT/NAP
Start	531	End	3238
GI	6539570	Score	124
Exons	531..733, 904..970, 3158..3238		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	53107	Seq. ID	OJ990317_04.0421.C13
Gene No.	111964	Strand	+
Start	3861	End	3932
Name	OJ990317_04.0421.C13.o2.gp	Method	AAT/GAP
Start	3861	End	3932
GI	LIB3477-003-P1-K1-E9	Score	108
Exons	3861..3932		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	53107	Seq. ID	OJ990317_04.0421.C13
Gene No.	111965	Strand	-
Start	97	End	3413
Name	OJ990317_04.0421.C13.o1.gs	Method	GENSCAN
Start	97	End	3413
GI	none	Score	.67
Exons	97..222, 575..754, 1589..1739, 1786..1911, 1979..2175, 3186..3413		

Seq. No.	53108	Seq. ID	OJ990317_04.0421.C15
Gene No.	111966	Strand	+
Start	1507	End	2402
Name	OJ990317_04.0421.C15.o1.gs	Method	GENSCAN
Start	1507	End	2231
GI	none	Score	.72
Exons	1507..1542, 1864..2033, 2117..2231		

Seq. No.	53108	Seq. ID	OJ990317_04.0421.C15
Gene No.	111966	Strand	+
Start	1507	End	2402
Name	OJ990317_04.0421.C15.o1.gp	Method	AAT/GAP
Start	1742	End	2402
GI	uC-osf1cyp174f11b1	Score	1111
Exons	1742..2033, 2117..2402		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-50 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	53108	Seq. ID	OJ990317_04.0421.C15
Gene No.	111967	Strand	+
Start	9245	End	12195
Name	OJ990317_04.0421.C15.o1.np	Method	AAT/NAP
Start	8830	End	11324
GI	4680203	Score	296
Exons	8830..8929, 8966..9825, 11219..11324		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	53108	Seq. ID	OJ990317_04.0421.C15
Gene No.	111967	Strand	+
Start	9245	End	12195
Name	OJ990317_04.0421.C15.o3.gs	Method	GENSCAN
Start	9245	End	12195
GI	none	Score	.78
Exons	9245..9623, 9802..10069, 10248..10320, 11115..11240, 11855..12007, 12026..12195		

Seq. No.	53108	Seq. ID	OJ990317_04.0421.C15
Gene No.	111967	Strand	+
Start	9245	End	12195
Name	OJ990317_04.0421.C15.o2.np	Method	AAT/NAP
Start	9509	End	11324
GI	99922	Score	163
Exons	9509..9825, 11219..11324		
GI Descrip.	hypothetical protein - soybean gi|930025|emb|CAA31883| (X13528) ORF (334 AA) [Glycine max]		

Seq. No.	53108	Seq. ID	OJ990317_04.0421.C15
Gene No.	111968	Strand	-
Start	3649	End	4171
Name	OJ990317_04.0421.C15.o2.gp	Method	AAT/GAP
Start	3649	End	4171
GI	none	Score	1046
Exons	3649..4171		

Seq. No.	53108	Seq. ID	OJ990317_04.0421.C15
Gene No.	111969	Strand	-
Start	10995	End	11256
Name	OJ990317_04.0421.C15.o3.gp	Method	AAT/GAP
Start	10995	End	11256
GI	2311800	Score	474
Exons	10995..11256		

Seq. No.	53108	Seq. ID	OJ990317_04.0421.C15
Gene No.	111970	Strand	-
Start	11506	End	12361
Name	OJ990317_04.0421.C15.o4.gp	Method	AAT/GAP
Start	11506	End	12361
GI	none	Score	355
Exons	11506..11673, 12310..12361		

Seq. No.	53109	Seq. ID	OJ990317_04.0421.C16
Gene No.	111971	Strand	+
Start	908	End	1024
Name	OJ990317_04.0421.C16.o2.gp	Method	AAT/GAP
Start	908	End	1024

GI	none	Score	202
Exons	908..1024		

Seq. No.	53109	Seq. ID	OJ990317_04.0421.C16
Gene No.	111972	Strand	+
Start	2588	End	7479
Name	OJ990317_04.0421.C16.o2.np	Method	AAT/NAP
Start	2588	End	6513
GI	4680203	Score	173
Exons	2588..2654, 6142..6513		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	53109	Seq. ID	OJ990317_04.0421.C16
Gene No.	111972	Strand	+
Start	2588	End	7479
Name	OJ990317_04.0421.C16.o1.np	Method	AAT/NAP
Start	5790	End	7479
GI	4558686	Score	110
Exons	5790..6069, 7243..7318, 7458..7479		
GI Descrip.	(AC006586) putative TNP2-like transposon protein [Arabidopsis thaliana]		

Seq. No.	53109	Seq. ID	OJ990317_04.0421.C16
Gene No.	111973	Strand	+
Start	7540	End	9477
Name	OJ990317_04.0421.C16.o3.np	Method	AAT/NAP
Start	7540	End	9477
GI	7329678	Score	107
Exons	7540..7623, 7653..8113, 9452..9477		
GI Descrip.	(AL162295) putative protein [Arabidopsis thaliana]		

Seq. No.	53109	Seq. ID	OJ990317_04.0421.C16
Gene No.	111974	Strand	+
Start	11066	End	11138
Name	OJ990317_04.0421.C16.o3.gp	Method	AAT/GAP
Start	11066	End	11138
GI	uC-osrocyp011c06b1	Score	146
Exons	11066..11138		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-50 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	53109	Seq. ID	OJ990317_04.0421.C16
Gene No.	111975	Strand	-
Start	74	End	127
Name	OJ990317_04.0421.C16.o1.gp	Method	AAT/GAP
Start	74	End	127
GI	none	Score	57
Exons	74..127		

Seq. No.	53109	Seq. ID	OJ990317_04.0421.C16
Gene No.	111976	Strand	-
Start	689	End	8335
Name	OJ990317_04.0421.C16.o1.gs	Method	GENSCAN
Start	689	End	8335
GI	none	Score	.48
Exons	689..801, 834..858, 954..1008, 3786..3979, 5820..5915, 6463..6576, 6746..6764, 7133..7311, 7518..7674, 7806..8011,		

8264..8335

Seq. No.	53110	Seq. ID	OJ990317_04.0421.C17
Gene No.	111977	Strand	+
Start	213	End	4836
Name	OJ990317_04.0421.C17.o1.gs	Method	GENSCAN
Start	213	End	2447
GI	none	Score	.68
Exons	213..300, 379..548, 1484..1549, 2092..2202, 2295..2447		

Seq. No.	53110	Seq. ID	OJ990317_04.0421.C17
Gene No.	111977	Strand	+
Start	213	End	4836
Name	OJ990317_04.0421.C17.o1.gp	Method	AAT/GAP
Start	1021	End	1403
GI	3107859	Score	752
Exons	1021..1403		

Seq. No.	53110	Seq. ID	OJ990317_04.0421.C17
Gene No.	111977	Strand	+
Start	213	End	4836
Name	OJ990317_04.0421.C17.o1.np	Method	AAT/NAP
Start	2092	End	4836
GI	7106529	Score	234
Exons	2092..2202, 2295..2401, 4809..4836		
GI Descrip.	(AP001278) ESTs C22403(C50132),C22404(C50132) correspond to a region of the predicted gene.; Similar to Arabidopsis thaliana shaggy related protein kinase ASK-gamma. (P43289) [Oryza sativa]		

Seq. No.	53110	Seq. ID	OJ990317_04.0421.C17
Gene No.	111977	Strand	+
Start	213	End	4836
Name	OJ990317_04.0421.C17.o2.gp	Method	AAT/GAP
Start	2339	End	3004
GI	uC-osflcyp112h11a1	Score	878
Exons	2339..2398, 2510..2558, 2655..3004		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	53110	Seq. ID	OJ990317_04.0421.C17
Gene No.	111978	Strand	-
Start	3264	End	5163
Name	OJ990317_04.0421.C17.o1.tm	Method	TBLASTX:Maize
Start	2004	End	2399
GI	none	Score	135
Exons	2004..2225, 2005..2199, 2292..2399, 2294..2383		

Seq. No.	53110	Seq. ID	OJ990317_04.0421.C17
Gene No.	111978	Strand	-
Start	3264	End	5163
Name	OJ990317_04.0421.C17.o2.gs	Method	GENSCAN
Start	3264	End	5101
GI	none	Score	.6
Exons	3264..3440, 4605..4775, 5015..5101		

Seq. No.	53110	Seq. ID	OJ990317_04.0421.C17
Gene No.	111978	Strand	-

Start	3264	End	5163
Name	OJ990317_04.0421.C17.o2.np	Method	AAT/NAP
Start	4722	End	5163
GI	5042454	Score	165
Exons	4722..4775, 5015..5163		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	53111	Seq. ID	OJ990317_04.0421.C18
Gene No.	111979	Strand	+
Start	223	End	338
Name	OJ990317_04.0421.C18.o1.gs	Method	GENSCAN
Start	223	End	338
GI	none	Score	.58
Exons	223..338		

Seq. No.	53111	Seq. ID	OJ990317_04.0421.C18
Gene No.	111980	Strand	+
Start	719	End	3935
Name	OJ990317_04.0421.C18.o1.np	Method	AAT/NAP
Start	719	End	3932
GI	5803259	Score	5101
Exons	719..1979, 2075..3932		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	53111	Seq. ID	OJ990317_04.0421.C18
Gene No.	111980	Strand	+
Start	719	End	3935
Name	OJ990317_04.0421.C18.o2.gs	Method	GENSCAN
Start	719	End	3935
GI	none	Score	.65
Exons	719..1206, 1233..1979, 2075..3784, 3821..3935		

Seq. No.	53111	Seq. ID	OJ990317_04.0421.C18
Gene No.	111981	Strand	-
Start	3943	End	4404
Name	OJ990317_04.0421.C18.o1.gp	Method	AAT/GAP
Start	3943	End	4404
GI	2428323	Score	846
Exons	3943..4404		
GI Descrip.	5803242/dbj|AP000399.1|AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04		

Seq. No.	53111	Seq. ID	OJ990317_04.0421.C18
Gene No.	111982	Strand	-
Start	4563	End	6086
Name	OJ990317_04.0421.C18.o3.gs	Method	GENSCAN
Start	4563	End	6083
GI	none	Score	1
Exons	4563..6083		

Seq. No.	53111	Seq. ID	OJ990317_04.0421.C18
Gene No.	111982	Strand	-
Start	4563	End	6086
Name	OJ990317_04.0421.C18.o2.np	Method	AAT/NAP
Start	4566	End	6086
GI	7228457	Score	2544
Exons	4566..6086		

GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	53111	Seq. ID	OJ990317_04.0421.C18
Gene No.	111982	Strand	-
Start	4563	End	6086
Name	OJ990317_04.0421.C18.o2.tw	Method	TBLASTX:Wheat
Start	4575	End	5177
GI	none	Score	81
Exons	4575..4700, 4579..4701, 4731..4802, 4881..5177, 4894..5037, 5074..5172, 5102..5173		
Seq. No.	53111	Seq. ID	OJ990317_04.0421.C18
Gene No.	111982	Strand	-
Start	4563	End	6086
Name	OJ990317_04.0421.C18.o1.tw	Method	TBLASTX:Wheat
Start	5178	End	5559
GI	none	Score	169
Exons	5178..5558, 5209..5457, 5217..5462, 5503..5559		
Seq. No.	53111	Seq. ID	OJ990317_04.0421.C18
Gene No.	111982	Strand	-
Start	4563	End	6086
Name	OJ990317_04.0421.C18.o1.tm	Method	TBLASTX:Maize
Start	5373	End	5696
GI	none	Score	200
Exons	5373..5696, 5386..5667		
Seq. No.	53112	Seq. ID	OJ990317_04.0421.C19
Gene No.	111983	Strand	-
Start	1	End	1519
Name	OJ990317_04.0421.C19.o1.np	Method	AAT/NAP
Start	1	End	1519
GI	7228457	Score	2148
Exons	1..13, 136..970, 1034..1519		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	53112	Seq. ID	OJ990317_04.0421.C19
Gene No.	111983	Strand	-
Start	1	End	1519
Name	OJ990317_04.0421.C19.o2.tw	Method	TBLASTX:Wheat
Start	2	End	392
GI	none	Score	290
Exons	2..391, 24..392		
Seq. No.	53112	Seq. ID	OJ990317_04.0421.C19
Gene No.	111983	Strand	-
Start	1	End	1519
Name	OJ990317_04.0421.C19.o1.ts	Method	TBLASTX:Soybean
Start	8	End	313
GI	none	Score	90
Exons	8..313, 153..296		
Seq. No.	53112	Seq. ID	OJ990317_04.0421.C19

Gene No.	111983	Strand	-
Start	1	End	1519
Name	OJ990317_04.0421.C19.o2.tm	Method	TBLASTX:Maize
Start	65	End	449
GI	none	Score	229
Exons	65..448, 84..449		

Seq. No.	53112	Seq. ID	OJ990317_04.0421.C19
Gene No.	111983	Strand	-
Start	1	End	1519
Name	OJ990317_04.0421.C19.o1.tm	Method	TBLASTX:Maize
Start	476	End	832
GI	none	Score	114
Exons	476..781, 476..832, 486..797		

Seq. No.	53112	Seq. ID	OJ990317_04.0421.C19
Gene No.	111983	Strand	-
Start	1	End	1519
Name	OJ990317_04.0421.C19.o1.tw	Method	TBLASTX:Wheat
Start	500	End	963
GI	none	Score	230
Exons	500..961, 506..961, 507..962, 520..963		

Seq. No.	53112	Seq. ID	OJ990317_04.0421.C19
Gene No.	111983	Strand	-
Start	1	End	1519
Name	OJ990317_04.0421.C19.o2.ts	Method	TBLASTX:Soybean
Start	557	End	922
GI	none	Score	119
Exons	557..691, 698..922		

Seq. No.	53112	Seq. ID	OJ990317_04.0421.C19
Gene No.	111983	Strand	-
Start	1	End	1519
Name	OJ990317_04.0421.C19.o3.tw	Method	TBLASTX:Wheat
Start	1118	End	1519
GI	none	Score	74
Exons	1118..1519, 1154..1348, 1158..1418		

Seq. No.	53113	Seq. ID	OJ990317_04.0421.C20
Gene No.	111984	Strand	+
Start	1784	End	4266
Name	OJ990317_04.0421.C20.o2.np	Method	AAT/NAP
Start	1784	End	4266
GI	5922623	Score	216
Exons	1784..1868, 2249..2401, 2569..2644, 4239..4266		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016856|dbj|BAA85199.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	53113	Seq. ID	OJ990317_04.0421.C20
Gene No.	111984	Strand	+
Start	1784	End	4266
Name	OJ990317_04.0421.C20.o3.np	Method	AAT/NAP
Start	3783	End	4257
GI	7523502	Score	143
Exons	3783..3877, 4146..4257		

GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		
Seq. No.	53113	Seq. ID	OJ990317_04.0421.C20
Gene No.	111985	Strand	-
Start	1	End	1706
Name	OJ990317_04.0421.C20.o1.np	Method	AAT/NAP
Start	1	End	1706
GI	7228457	Score	2519
Exons	1..1279, 1341..1706		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	53113	Seq. ID	OJ990317_04.0421.C20
Gene No.	111986	Strand	-
Start	3397	End	5962
Name	OJ990317_04.0421.C20.o1.tw	Method	TBLASTX:Wheat
Start	662	End	1000
GI	none	Score	96
Exons	662..919, 696..935, 902..1000, 903..995		
Seq. No.	53113	Seq. ID	OJ990317_04.0421.C20
Gene No.	111986	Strand	-
Start	3397	End	5962
Name	OJ990317_04.0421.C20.o1.tm	Method	TBLASTX:Maize
Start	764	End	1039
GI	none	Score	106
Exons	764..1039, 765..1010		
Seq. No.	53113	Seq. ID	OJ990317_04.0421.C20
Gene No.	111986	Strand	-
Start	3397	End	5962
Name	OJ990317_04.0421.C20.o2.gs	Method	GENSCAN
Start	3397	End	5962
GI	none	Score	.62
Exons	3397..3435, 4187..4309, 5369..5511, 5598..5635, 5676..5962		
Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111987	Strand	+
Start	1919	End	4591
Name	OJ990317_04.0421.C21.o1.gs	Method	GENSCAN
Start	1919	End	4591
GI	none	Score	.72
Exons	1919..2261, 3237..3367, 4295..4486, 4549..4591		
Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111988	Strand	+
Start	12697	End	24467
Name	OJ990317_04.0421.C21.o1.gp	Method	AAT/GAP
Start	12603	End	12981
GI	LIB3433-046-P1-K1-G8	Score	682
Exons	12603..12981		
GI Descrip.	'576771/gb|U16256|OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3''-end sequence'		
Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111988	Strand	+

Start	12697	End	24467
Name	OJ990317_04.0421.C21.o3.gs	Method	GENSCAN
Start	12697	End	22506
GI	none	Score	.46
Exons	12697..12811, 13024..13195, 13677..13920, 16437..16602, 18901..18962, 19025..19349, 19830..19953, 20257..20414, 20868..21118, 21511..21738, 22417..22506		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111988	Strand	+
Start	12697	End	24467
Name	OJ990317_04.0421.C21.o2.np	Method	AAT/NAP
Start	18312	End	24467
GI	5257279	Score	1465
Exons	18312..18860, 18968..19175, 19830..21661, 24424..24467		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111988	Strand	+
Start	12697	End	24467
Name	OJ990317_04.0421.C21.o3.gp	Method	AAT/GAP
Start	18941	End	19437
GI	none	Score	981
Exons	18941..19437		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111988	Strand	+
Start	12697	End	24467
Name	OJ990317_04.0421.C21.o4.gp	Method	AAT/GAP
Start	20777	End	21217
GI	uC-osf1M202094e05b1	Score	842
Exons	20777..21217		
GI Descrip.	'5257279/dbj|BAA81778.1| 6.0e-55 (AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]'		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111989	Strand	-
Start	5851	End	11776
Name	OJ990317_04.0421.C21.o1.np	Method	AAT/NAP
Start	5837	End	11776
GI	6466937	Score	2227
Exons	5837..9954, 11752..11776		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111989	Strand	-
Start	5851	End	11776
Name	OJ990317_04.0421.C21.o2.gs	Method	GENSCAN
Start	5851	End	10341
GI	none	Score	.72
Exons	5851..6417, 6445..6552, 6679..7581, 7609..7945, 8078..8490, 8635..9044, 9182..9761, 9775..10341		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21

Gene No.	111990	Strand	-
Start	17289	End	17782
Name	OJ990317_04.0421.C21.o2.gp	Method	AAT/GAP
Start	17289	End	17782
GI	576771	Score	740
Exons	17289..17500, 17527..17782		
GI Descrip.	576771/gb|U16256|OSU16256 0.0e+00 Oryza sativa cone SR1 sucrose-regulated mRNA, 3'-end sequence		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111991	Strand	-
Start	23717	End	24298
Name	OJ990317_04.0421.C21.o4.tm	Method	TBLASTX:Maize
Start	5908	End	6264
GI	none	Score	132
Exons	5908..6264, 5929..6207, 6038..6247		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111991	Strand	-
Start	23717	End	24298
Name	OJ990317_04.0421.C21.o2.tw	Method	TBLASTX:Wheat
Start	6340	End	6915
GI	none	Score	251
Exons	6340..6474, 6541..6915		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111991	Strand	-
Start	23717	End	24298
Name	OJ990317_04.0421.C21.o1.tm	Method	TBLASTX:Maize
Start	6541	End	7113
GI	none	Score	103
Exons	6541..6909, 6541..7113, 6848..7036		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111991	Strand	-
Start	23717	End	24298
Name	OJ990317_04.0421.C21.o1.ts	Method	TBLASTX:Soybean
Start	6769	End	7114
GI	none	Score	136
Exons	6769..7089, 6770..7114		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111991	Strand	-
Start	23717	End	24298
Name	OJ990317_04.0421.C21.o5.tm	Method	TBLASTX:Maize
Start	7246	End	7536
GI	none	Score	90
Exons	7246..7389, 7390..7536, 7418..7519		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111991	Strand	-
Start	23717	End	24298
Name	OJ990317_04.0421.C21.o3.tw	Method	TBLASTX:Wheat
Start	7411	End	7792
GI	none	Score	44
Exons	7411..7791, 7492..7599, 7712..7792		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111991	Strand	-
Start	23717	End	24298
Name	OJ990317_04.0421.C21.o3.tm	Method	TBLASTX:Maize
Start	7588	End	21651
GI	none	Score	105
Exons	7588..7872, 7658..7792, 7861..8112, 7868..8026, 21460..21651		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111991	Strand	-
Start	23717	End	24298
Name	OJ990317_04.0421.C21.o2.ts	Method	TBLASTX:Soybean
Start	7858	End	21651
GI	none	Score	107
Exons	7858..8208, 7865..8092, 21332..21355, 21332..21388, 21361..21633, 21367..21651, 21375..21635		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111991	Strand	-
Start	23717	End	24298
Name	OJ990317_04.0421.C21.o5.tw	Method	TBLASTX:Wheat
Start	7858	End	21651
GI	none	Score	97
Exons	7858..8136, 7859..8080, 21439..21651, 21441..21650		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111991	Strand	-
Start	23717	End	24298
Name	OJ990317_04.0421.C21.o2.tm	Method	TBLASTX:Maize
Start	8131	End	21444
GI	none	Score	167
Exons	8131..8616, 8150..8563, 20975..21358, 21049..21216, 21059..21358, 21331..21444		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111991	Strand	-
Start	23717	End	24298
Name	OJ990317_04.0421.C21.o1.tw	Method	TBLASTX:Wheat
Start	8185	End	21355
GI	none	Score	146
Exons	8185..8667, 8189..8563, 20908..21321, 20909..21355, 21014..21349		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111991	Strand	-
Start	23717	End	24298
Name	OJ990317_04.0421.C21.o3.ts	Method	TBLASTX:Soybean
Start	8317	End	21259
GI	none	Score	167
Exons	8317..8631, 20975..21259		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111991	Strand	-
Start	23717	End	24298
Name	OJ990317_04.0421.C21.o4.tw	Method	TBLASTX:Wheat
Start	19763	End	20140
GI	none	Score	171
Exons	19763..19960, 19786..19959, 19997..20140, 20038..20130		

Seq. No.	53114	Seq. ID	OJ990317_04.0421.C21
Gene No.	111991	Strand	-
Start	23717	End	24298
Name	OJ990317_04.0421.C21.o4.gs	Method	GENSCAN
Start	23717	End	24298
GI	none	Score	.47
Exons	23717..24298		

Seq. No.	53115	Seq. ID	OJ990317_04.0421.C22
Gene No.	111992	Strand	+
Start	132	End	7823
Name	OJ990317_04.0421.C22.o1.np	Method	AAT/NAP
Start	132	End	2337
GI	6721516	Score	108
Exons	132..408, 437..577, 2311..2337		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	53115	Seq. ID	OJ990317_04.0421.C22
Gene No.	111992	Strand	+
Start	132	End	7823
Name	OJ990317_04.0421.C22.o1.gs	Method	GENSCAN
Start	156	End	7823
GI	none	Score	.63
Exons	156..470, 475..573, 4785..5075, 5145..5180, 6113..6877, 6953..7117, 7272..7367, 7482..7823		

Seq. No.	53115	Seq. ID	OJ990317_04.0421.C22
Gene No.	111993	Strand	+
Start	10377	End	11145
Name	OJ990317_04.0421.C22.o2.np	Method	AAT/NAP
Start	10377	End	11145
GI	4680183	Score	176
Exons	10377..10445, 11056..11145		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111994	Strand	+
Start	7020	End	7780
Name	OJ990317_04.0421.C23.o3.np	Method	AAT/NAP
Start	7020	End	7780
GI	4680183	Score	180
Exons	7020..7090, 7691..7780		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111995	Strand	-
Start	649	End	5096
Name	OJ990317_04.0421.C23.o1.np	Method	AAT/NAP
Start	649	End	5096
GI	4680179	Score	6819
Exons	649..5096		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111995	Strand	-
Start	649	End	5096

Name	OJ990317_04.0421.C23.o2.gs	Method	GENSCAN
Start	4428	End	5080
GI	none	Score	.82
Exons	4428..4829, 5063..5080		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o6.tm	Method	TBLASTX:Maize
Start	673	End	870
GI	none	Score	181
Exons	673..870		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o6.tw	Method	TBLASTX:Wheat
Start	694	End	1027
GI	none	Score	114
Exons	694..1026, 812..1027		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o1.tm	Method	TBLASTX:Maize
Start	881	End	1473
GI	none	Score	217
Exons	881..1312, 895..1314, 899..1312, 1231..1314, 1313..1468, 1314..1469, 1315..1473, 1331..1465		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o1.tw	Method	TBLASTX:Wheat
Start	1027	End	1572
GI	none	Score	346
Exons	1027..1572, 1028..1564		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o2.ts	Method	TBLASTX:Soybean
Start	1574	End	1783
GI	none	Score	112
Exons	1574..1783, 1584..1778		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o3.tw	Method	TBLASTX:Wheat
Start	1574	End	2090
GI	none	Score	243
Exons	1574..1873, 1584..1826, 1604..1897, 1854..2090, 1855..1932		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658

Name	OJ990317_04.0421.C23.o5.tm	Method	TBLASTX:Maize
Start	1574	End	1780
GI	none	Score	161
Exons	1574..1780, 1581..1778		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o2.tm	Method	TBLASTX:Maize
Start	2115	End	2468
GI	none	Score	234
Exons	2115..2468, 2122..2466		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o2.tw	Method	TBLASTX:Wheat
Start	2115	End	2540
GI	none	Score	201
Exons	2115..2462, 2115..2540, 2122..2508		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o3.ts	Method	TBLASTX:Soybean
Start	2289	End	2534
GI	none	Score	202
Exons	2289..2534		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o4.tm	Method	TBLASTX:Maize
Start	2469	End	2822
GI	none	Score	37
Exons	2469..2822, 2470..2505, 2475..2753, 2569..2754		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o5.tw	Method	TBLASTX:Wheat
Start	2541	End	2843
GI	none	Score	224
Exons	2541..2843, 2542..2802, 2762..2842		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o1.ts	Method	TBLASTX:Soybean
Start	2556	End	2951
GI	none	Score	146
Exons	2556..2915, 2557..2799, 2841..2915, 2919..2951, 2920..2949		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o3.tm	Method	TBLASTX:Maize

Start	2838	End	3305
GI	none	Score	364
Exons	2838..3305		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o4.tw	Method	TBLASTX:Wheat
Start	2892	End	3374
GI	none	Score	237
Exons	2892..3374, 2935..3270		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o8.tw	Method	TBLASTX:Wheat
Start	3531	End	3953
GI	none	Score	103
Exons	3531..3698, 3538..3687, 3567..3689, 3759..3953, 3805..3936		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o7.tw	Method	TBLASTX:Wheat
Start	4470	End	4833
GI	none	Score	63
Exons	4470..4829, 4471..4539, 4479..4799, 4588..4833		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o3.gs	Method	GENSCAN
Start	5353	End	7658
GI	none	Score	.79
Exons	5353..5778, 5794..6306, 7506..7658		

Seq. No.	53116	Seq. ID	OJ990317_04.0421.C23
Gene No.	111996	Strand	-
Start	5353	End	7658
Name	OJ990317_04.0421.C23.o2.np	Method	AAT/NAP
Start	5356	End	6240
GI	5042448	Score	832
Exons	5356..5586, 5623..6240		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type retrotransposon [Oryza sativa]		

Seq. No.	53117	Seq. ID	OJ990317_04.0421.C24
Gene No.	111997	Strand	+
Start	793	End	807
Name	OJ990317_04.0421.C24.o1.gs	Method	GENSCAN
Start	793	End	807
GI	none	Score	.72
Exons	793..807		

Seq. No.	53118	Seq. ID	OJ990317_04.0421.C26
Gene No.	111998	Strand	+
Start	328	End	719

Name	OJ990317_04.0421.C26.o1.tw	Method	TBLASTX:Wheat
Start	273	End	717
GI	none	Score	491
Exons	273..716, 274..717		

Seq. No.	53118	Seq. ID	OJ990317_04.0421.C26
Gene No.	111998	Strand	+
Start	328	End	719
Name	OJ990317_04.0421.C26.o1.ts	Method	TBLASTX:Soybean
Start	313	End	678
GI	none	Score	138
Exons	313..537, 544..678		

Seq. No.	53118	Seq. ID	OJ990317_04.0421.C26
Gene No.	111998	Strand	+
Start	328	End	719
Name	OJ990317_04.0421.C26.o1.np	Method	AAT/NAP
Start	328	End	719
GI	5902445	Score	683
Exons	328..719		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	53118	Seq. ID	OJ990317_04.0421.C26
Gene No.	111998	Strand	+
Start	328	End	719
Name	OJ990317_04.0421.C26.o1.tm	Method	TBLASTX:Maize
Start	403	End	716
GI	none	Score	326
Exons	403..705, 444..716		

Seq. No.	53119	Seq. ID	OJ990317_04.0421.C27
Gene No.	111999	Strand	+
Start	1	End	1248
Name	OJ990317_04.0421.C27.o1.np	Method	AAT/NAP
Start	1	End	1248
GI	5902445	Score	2118
Exons	1..1248		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	53119	Seq. ID	OJ990317_04.0421.C27
Gene No.	111999	Strand	+
Start	1	End	1248
Name	OJ990317_04.0421.C27.o3.tw	Method	TBLASTX:Wheat
Start	1	End	135
GI	none	Score	193
Exons	1..135, 6..134		

Seq. No.	53119	Seq. ID	OJ990317_04.0421.C27
Gene No.	111999	Strand	+
Start	1	End	1248
Name	OJ990317_04.0421.C27.o3.tm	Method	TBLASTX:Maize
Start	40	End	282
GI	none	Score	177
Exons	40..282		

Seq. No.	53119	Seq. ID	OJ990317_04.0421.C27
Gene No.	111999	Strand	+

Start	1	End	1248
Name	OJ990317_04.0421.C27.o1.gs	Method	GENSCAN
Start	49	End	1189
GI	none	Score	.94
Exons	49..1189		

Seq. No.	53119	Seq. ID	OJ990317_04.0421.C27
Gene No.	111999	Strand	+
Start	1	End	1248
Name	OJ990317_04.0421.C27.o1.tw	Method	TBLASTX:Wheat
Start	136	End	560
GI	none	Score	446
Exons	136..555, 180..560, 255..560		

Seq. No.	53119	Seq. ID	OJ990317_04.0421.C27
Gene No.	111999	Strand	+
Start	1	End	1248
Name	OJ990317_04.0421.C27.o1.ts	Method	TBLASTX:Soybean
Start	214	End	615
GI	none	Score	319
Exons	214..615, 231..374, 411..581		

Seq. No.	53119	Seq. ID	OJ990317_04.0421.C27
Gene No.	111999	Strand	+
Start	1	End	1248
Name	OJ990317_04.0421.C27.o1.tm	Method	TBLASTX:Maize
Start	282	End	726
GI	none	Score	272
Exons	282..536, 283..537, 307..537, 558..689, 559..690, 700..726		

Seq. No.	53119	Seq. ID	OJ990317_04.0421.C27
Gene No.	111999	Strand	+
Start	1	End	1248
Name	OJ990317_04.0421.C27.o4.tw	Method	TBLASTX:Wheat
Start	564	End	714
GI	none	Score	168
Exons	564..713, 565..714		

Seq. No.	53119	Seq. ID	OJ990317_04.0421.C27
Gene No.	111999	Strand	+
Start	1	End	1248
Name	OJ990317_04.0421.C27.o2.tw	Method	TBLASTX:Wheat
Start	723	End	1131
GI	none	Score	259
Exons	723..974, 724..975, 984..1130, 985..1131		

Seq. No.	53119	Seq. ID	OJ990317_04.0421.C27
Gene No.	111999	Strand	+
Start	1	End	1248
Name	OJ990317_04.0421.C27.o2.ts	Method	TBLASTX:Soybean
Start	841	End	1229
GI	none	Score	88
Exons	841..945, 849..1229, 985..1227		

Seq. No.	53119	Seq. ID	OJ990317_04.0421.C27
Gene No.	111999	Strand	+
Start	1	End	1248

Name	OJ990317_04.0421.C27.o2.tm	Method	TBLASTX:Maize
Start	903	End	1176
GI	none	Score	126
Exons	903..1073, 904..1074, 1078..1176, 1110..1175		

Seq. No.	53120	Seq. ID	OJ990317_04.0421.C29
Gene No.	112000	Strand	+
Start	348	End	424
Name	OJ990317_04.0421.C29.o1.gs	Method	GENSCAN
Start	348	End	424
GI	none	Score	.58
Exons	348..424		

Seq. No.	53121	Seq. ID	OJ990317_04.0421.C33
Gene No.	112001	Strand	-
Start	787	End	1806
Name	OJ990317_04.0421.C33.o1.gs	Method	GENSCAN
Start	787	End	1806
GI	none	Score	.84
Exons	787..830, 959..1110, 1375..1402, 1743..1806		

Seq. No.	53122	Seq. ID	OJ990317_04.0421.C35
Gene No.	112002	Strand	-
Start	1	End	193
Name	OJ990317_04.0421.C35.o1.np	Method	AAT/NAP
Start	1	End	193
GI	6539586	Score	293
Exons	1..193		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	53122	Seq. ID	OJ990317_04.0421.C35
Gene No.	112002	Strand	-
Start	1	End	193
Name	OJ990317_04.0421.C35.o1.gs	Method	GENSCAN
Start	64	End	193
GI	none	Score	.81
Exons	64..193		

Seq. No.	53123	Seq. ID	OJ990317_04.0421.C36
Gene No.	112003	Strand	-
Start	1	End	219
Name	OJ990317_04.0421.C36.o1.np	Method	AAT/NAP
Start	1	End	219
GI	5902444	Score	367
Exons	1..219		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	53124	Seq. ID	OJ990317_04.0421.C37
Gene No.	112004	Strand	+
Start	67	End	316
Name	OJ990317_04.0421.C37.o1.gs	Method	GENSCAN
Start	67	End	316
GI	none	Score	.98
Exons	67..147, 239..316		

Seq. No.	53125	Seq. ID	OJ990317_04.0421.C40
Gene No.	112005	Strand	+

Start	636	End	736
Name	OJ990317_04.0421.C40.o1.gs	Method	GENSCAN
Start	636	End	736
GI	none	Score	.63
Exons	636..736		

Seq. No.	53126	Seq. ID	OJ990317_04.0421.C43
Gene No.	112006	Strand	+
Start	124	End	508
Name	OJ990317_04.0421.C43.o1.gs	Method	GENSCAN
Start	124	End	508
GI	none	Score	.49
Exons	124..313, 348..508		

Seq. No.	53126	Seq. ID	OJ990317_04.0421.C43
Gene No.	112007	Strand	-
Start	1433	End	1466
Name	OJ990317_04.0421.C43.o1.gp	Method	AAT/GAP
Start	1208	End	1466
GI	13291_2.R1084	Score	459
Exons	1208..1466		
GI Descrip.	'730461/sp|P41057|R29A_YEAST 2.0e-15 40S RIBOSOMAL PROTEIN YS29A >gi_626904_pir__S48503 ribosomal protein S29.e.A, cytosolic - yeast (Saccharomyces cerevisiae) >gi_287628_dbj_BAA03507_ (D14676) ribosomal protein YS29 [Saccharomyces cerevisiae] >gi_625108 (U19729) Ylr388wp [Saccharomyces cerevisiae]'		

Seq. No.	53126	Seq. ID	OJ990317_04.0421.C43
Gene No.	112007	Strand	-
Start	1433	End	1466
Name	OJ990317_04.0421.C43.o2.gs	Method	GENSCAN
Start	1433	End	1464
GI	none	Score	.84
Exons	1433..1464		

Seq. No.	53127	Seq. ID	OJ990317_04.0421.C49
Gene No.	112008	Strand	+
Start	530	End	1809
Name	OJ990317_04.0421.C49.o1.gp	Method	AAT/GAP
Start	530	End	1809
GI	LIB3477-003-P1-K1-E9	Score	103
Exons	530..554, 1754..1809		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	53127	Seq. ID	OJ990317_04.0421.C49
Gene No.	112009	Strand	-
Start	800	End	1105
Name	OJ990317_04.0421.C49.o1.gs	Method	GENSCAN
Start	800	End	1105
GI	none	Score	.76
Exons	800..940, 985..1105		

Seq. No.	53128	Seq. ID	OJ990317_04.0421.C50
Gene No.	112010	Strand	+
Start	516	End	1642

Name	OJ990317_04.0421.C50.o1.np	Method	AAT/NAP
Start	516	End	1642
GI	6539588	Score	202
Exons	516..817, 1588..1642		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	53129	Seq. ID	OJ990317_04.0421.C51
Gene No.	112011	Strand	+
Start	251	End	701
Name	OJ990317_04.0421.C51.o1.gs	Method	GENSCAN
Start	251	End	701
GI	none	Score	.43
Exons	251..470, 634..701		

Seq. No.	53130	Seq. ID	OJ990317_04.0421.C53
Gene No.	112012	Strand	-
Start	1	End	609
Name	OJ990317_04.0421.C53.o1.np	Method	AAT/NAP
Start	1	End	609
GI	5902447	Score	722
Exons	1..609		
GI Descrip.	(AB030283) orf4 [Oryza sativa]		

Seq. No.	53130	Seq. ID	OJ990317_04.0421.C53
Gene No.	112012	Strand	-
Start	1	End	609
Name	OJ990317_04.0421.C53.o1.gs	Method	GENSCAN
Start	3	End	485
GI	none	Score	.74
Exons	3..252, 335..485		

Seq. No.	53130	Seq. ID	OJ990317_04.0421.C53
Gene No.	112013	Strand	-
Start	699	End	861
Name	OJ990317_04.0421.C53.o2.np	Method	AAT/NAP
Start	699	End	861
GI	5902448	Score	266
Exons	699..861		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	53131	Seq. ID	OJ990317_04.0421.C55
Gene No.	112014	Strand	-
Start	1	End	311
Name	OJ990317_04.0421.C55.o1.np	Method	AAT/NAP
Start	1	End	311
GI	6721559	Score	183
Exons	1..311		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815084|dbj|BAA90370.1| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	53131	Seq. ID	OJ990317_04.0421.C55
Gene No.	112015	Strand	-
Start	502	End	839
Name	OJ990317_04.0421.C55.o1.gs	Method	GENSCAN
Start	502	End	839
GI	none	Score	.88

Exons	502..708, 825..839		
Seq. No.	53132	Seq. ID	OJ990317_04.0421.C56
Gene No.	112016	Strand	+
Start	395	End	585
Name	OJ990317_04.0421.C56.o1.gs	Method	GENSCAN
Start	395	End	585
GI	none	Score	.4
Exons	395..585		
Seq. No.	53133	Seq. ID	OJ990317_04.0421.C57
Gene No.	112017	Strand	-
Start	2120	End	2368
Name	OJ990317_04.0421.C57.o2.gs	Method	GENSCAN
Start	2120	End	2368
GI	none	Score	.82
Exons	2120..2368		
Seq. No.	53134	Seq. ID	OJ990317_04.0421.C58
Gene No.	112018	Strand	+
Start	435	End	858
Name	OJ990317_04.0421.C58.o1.gp	Method	AAT/GAP
Start	435	End	858
GI	none	Score	755
Exons	435..858		
Seq. No.	53134	Seq. ID	OJ990317_04.0421.C58
Gene No.	112019	Strand	-
Start	718	End	2471
Name	OJ990317_04.0421.C58.o1.gs	Method	GENSCAN
Start	718	End	2468
GI	none	Score	.98
Exons	718..1344, 1439..1975, 2094..2468		
Seq. No.	53134	Seq. ID	OJ990317_04.0421.C58
Gene No.	112019	Strand	-
Start	718	End	2471
Name	OJ990317_04.0421.C58.o1.np	Method	AAT/NAP
Start	736	End	2471
GI	5915839	Score	1007
Exons	736..1355, 1450..1975, 2097..2471		
GI Descrip.	CYTOCHROME P450 71D10 gi|2739000|gb|AAB94588| (AF022459) CYP71D10p [Glycine max]		
Seq. No.	53134	Seq. ID	OJ990317_04.0421.C58
Gene No.	112020	Strand	-
Start	3129	End	3444
Name	OJ990317_04.0421.C58.o1.ts	Method	TBLASTX:Soybean
Start	736	End	2369
GI	none	Score	79
Exons	736..1113, 799..1119, 845..1354, 1159..1353, 1442..1807, 1859..1975, 1881..1976, 2091..2369, 2284..2349		
Seq. No.	53134	Seq. ID	OJ990317_04.0421.C58
Gene No.	112020	Strand	-
Start	3129	End	3444
Name	OJ990317_04.0421.C58.o1.tc	Method	TBLASTX:Cress

Start	739	End	2351
GI	none	Score	114
Exons	739..1224, 845..1090, 1225..1353, 1226..1351, 1862..1972, 2088..2282, 2292..2351		

Seq. No.	53134	Seq. ID	OJ990317_04.0421.C58
Gene No.	112020	Strand	-
Start	3129	End	3444
Name	OJ990317_04.0421.C58.o1.tw	Method	TBLASTX:Wheat
Start	742	End	1009
GI	none	Score	45
Exons	742..1008, 744..857, 745..1005, 845..1009		

Seq. No.	53134	Seq. ID	OJ990317_04.0421.C58
Gene No.	112020	Strand	-
Start	3129	End	3444
Name	OJ990317_04.0421.C58.o1.tm	Method	TBLASTX:Maize
Start	895	End	1631
GI	none	Score	344
Exons	895..1116, 896..1354, 1016..1327, 1077..1352, 1159..1353, 1442..1477, 1476..1631		

Seq. No.	53134	Seq. ID	OJ990317_04.0421.C58
Gene No.	112020	Strand	-
Start	3129	End	3444
Name	OJ990317_04.0421.C58.o2.tw	Method	TBLASTX:Wheat
Start	1039	End	1354
GI	none	Score	179
Exons	1039..1344, 1040..1354		

Seq. No.	53134	Seq. ID	OJ990317_04.0421.C58
Gene No.	112020	Strand	-
Start	3129	End	3444
Name	OJ990317_04.0421.C58.o2.tm	Method	TBLASTX:Maize
Start	1847	End	2378
GI	none	Score	144
Exons	1847..1978, 1856..1981, 2109..2303, 2113..2289, 2166..2351, 2282..2356, 2283..2378, 2284..2352		

Seq. No.	53134	Seq. ID	OJ990317_04.0421.C58
Gene No.	112020	Strand	-
Start	3129	End	3444
Name	OJ990317_04.0421.C58.o2.gs	Method	GENSCAN
Start	3129	End	3444
GI	none	Score	.54
Exons	3129..3150, 3352..3444		

Seq. No.	53135	Seq. ID	OJ990317_04.0421.C59
Gene No.	112021	Strand	+
Start	137	End	843
Name	OJ990317_04.0421.C59.o1.gs	Method	GENSCAN
Start	137	End	843
GI	none	Score	.5
Exons	137..275, 615..699, 824..843		

Seq. No.	53136	Seq. ID	OJ990317_04.0421.C66
Gene No.	112022	Strand	-

Start	16	End	810
Name	OJ990317_04.0421.C66.o1.gs	Method	GENSCAN
Start	16	End	810
GI	none	Score	.92
Exons	16..217, 482..810		

Seq. No.	53137	Seq. ID	OJ990317_04.0421.C68
Gene No.	112023	Strand	-
Start	1815	End	2134
Name	OJ990317_04.0421.C68.o1.np	Method	AAT/NAP
Start	1815	End	2134
GI	6006852	Score	122
Exons	1815..1913, 2071..2134		
GI Descrip.	(AC009540) putative adenylylsulfate kinase [Arabidopsis thaliana]		

Seq. No.	53137	Seq. ID	OJ990317_04.0421.C68
Gene No.	112023	Strand	-
Start	1815	End	2134
Name	OJ990317_04.0421.C68.o2.gs	Method	GENSCAN
Start	1815	End	2127
GI	none	Score	.98
Exons	1815..1913, 2071..2127		

Seq. No.	53138	Seq. ID	OJ990317_04.0421.C85
Gene No.	112024	Strand	-
Start	202	End	730
Name	OJ990317_04.0421.C85.o1.gs	Method	GENSCAN
Start	202	End	730
GI	none	Score	.85
Exons	202..297, 395..730		

Seq. No.	53139	Seq. ID	OJ990317_04.0421.C86
Gene No.	112025	Strand	+
Start	65	End	637
Name	OJ990317_04.0421.C86.o1.gs	Method	GENSCAN
Start	65	End	637
GI	none	Score	.79
Exons	65..189, 459..637		

Seq. No.	53140	Seq. ID	OJ990317_04.0421.C88
Gene No.	112026	Strand	+
Start	103	End	968
Name	OJ990317_04.0421.C88.o1.gs	Method	GENSCAN
Start	103	End	968
GI	none	Score	.73
Exons	103..114, 194..283, 359..460, 536..616, 699..788, 867..968		

Seq. No.	53141	Seq. ID	OJ990317_04.0421.C93
Gene No.	112027	Strand	-
Start	52	End	1420
Name	OJ990317_04.0421.C93.o1.tw	Method	TBLASTX:Wheat
Start	1	End	717
GI	none	Score	161
Exons	1..213, 260..496, 262..492, 541..654, 541..717		

Seq. No.	53141	Seq. ID	OJ990317_04.0421.C93

Gene No.	112027	Strand	-
Start	52	End	1420
Name	OJ990317_04.0421.C93.o1.np	Method	AAT/NAP
Start	52	End	1420
GI	5902444	Score	2234
Exons	52..1420		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	53141	Seq. ID	OJ990317_04.0421.C93
Gene No.	112027	Strand	-
Start	52	End	1420
Name	OJ990317_04.0421.C93.o1.tm	Method	TBLASTX:Maize
Start	262	End	409
GI	none	Score	127
Exons	262..408, 263..409		

Seq. No.	53142	Seq. ID	OJ990317_04.0421.C96
Gene No.	112028	Strand	-
Start	144	End	226
Name	OJ990317_04.0421.C96.o1.gs	Method	GENSCAN
Start	144	End	226
GI	none	Score	.54
Exons	144..226		

Seq. No.	53143	Seq. ID	OJ990317_04.0421.C99
Gene No.	112029	Strand	+
Start	1	End	1339
Name	OJ990317_04.0421.C99.o1.np	Method	AAT/NAP
Start	1	End	1339
GI	7228457	Score	1888
Exons	1..250, 373..1339		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	53143	Seq. ID	OJ990317_04.0421.C99
Gene No.	112029	Strand	+
Start	1	End	1339
Name	OJ990317_04.0421.C99.o1.tw	Method	TBLASTX:Wheat
Start	1	End	414
GI	none	Score	473
Exons	1..414, 3..407		

Seq. No.	53143	Seq. ID	OJ990317_04.0421.C99
Gene No.	112029	Strand	+
Start	1	End	1339
Name	OJ990317_04.0421.C99.o1.tm	Method	TBLASTX:Maize
Start	1	End	321
GI	none	Score	302
Exons	1..321, 48..302		

Seq. No.	53143	Seq. ID	OJ990317_04.0421.C99
Gene No.	112029	Strand	+
Start	1	End	1339
Name	OJ990317_04.0421.C99.o1.gs	Method	GENSCAN
Start	37	End	1182
GI	none	Score	.92

Exons	37..998, 1025..1182		
Seq. No.	53143	Seq. ID	OJ990317_04.0421.C99
Gene No.	112029	Strand	+
Start	1	End	1339
Name	OJ990317_04.0421.C99.o1.ts	Method	TBLASTX:Soybean
Start	73	End	444
GI	none	Score	273
Exons	73..444, 90..233		
Seq. No.	53143	Seq. ID	OJ990317_04.0421.C99
Gene No.	112029	Strand	+
Start	1	End	1339
Name	OJ990317_04.0421.C99.o2.tw	Method	TBLASTX:Wheat
Start	968	End	1232
GI	none	Score	266
Exons	968..1231, 969..1232		
Seq. No.	53144	Seq. ID	OJ990317_04.0421.C100
Gene No.	112030	Strand	+
Start	1	End	548
Name	OJ990317_04.0421.C100.o1.np	Method	AAT/NAP
Start	1	End	545
GI	7228457	Score	870
Exons	1..545		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	53144	Seq. ID	OJ990317_04.0421.C100
Gene No.	112030	Strand	+
Start	1	End	548
Name	OJ990317_04.0421.C100.o1.tw	Method	TBLASTX:Wheat
Start	3	End	536
GI	none	Score	185
Exons	3..230, 74..217, 309..380, 410..532, 411..536		
Seq. No.	53144	Seq. ID	OJ990317_04.0421.C100
Gene No.	112030	Strand	+
Start	1	End	548
Name	OJ990317_04.0421.C100.o1.gs	Method	GENSCAN
Start	57	End	548
GI	none	Score	.94
Exons	57..548		
Seq. No.	53145	Seq. ID	OJ990317_04.0421.C101
Gene No.	112031	Strand	+
Start	116	End	766
Name	OJ990317_04.0421.C101.o1.gs	Method	GENSCAN
Start	116	End	766
GI	none	Score	.5
Exons	116..766		
Seq. No.	53146	Seq. ID	OJ990317_04.0421.C103
Gene No.	112032	Strand	+
Start	2167	End	2588
Name	OJ990317_04.0421.C103.o1.gp	Method	AAT/GAP

Start	2167	End	2588
GI	uC-osroM202010b11a1	Score	796
Exons	2167..2588		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	53146	Seq. ID	OJ990317_04.0421.C103
Gene No.	112033	Strand	+
Start	3750	End	4561
Name	OJ990317_04.0421.C103.o2.gs	Method	GENSCAN
Start	3750	End	4561
GI	none	Score	.73
Exons	3750..3767, 4112..4561		

Seq. No.	53146	Seq. ID	OJ990317_04.0421.C103
Gene No.	112034	Strand	-
Start	309	End	2123
Name	OJ990317_04.0421.C103.o1.gs	Method	GENSCAN
Start	309	End	2123
GI	none	Score	.54
Exons	309..757, 935..1286, 1983..2123		

Seq. No.	53146	Seq. ID	OJ990317_04.0421.C103
Gene No.	112034	Strand	-
Start	309	End	2123
Name	OJ990317_04.0421.C103.o1.np	Method	AAT/NAP
Start	348	End	1325
GI	2443320	Score	1113
Exons	348..1325		
GI Descrip.	(D85597) polyprotein [Oryza australiensis]		

Seq. No.	53146	Seq. ID	OJ990317_04.0421.C103
Gene No.	112035	Strand	-
Start	3210	End	3765
Name	OJ990317_04.0421.C103.o2.gp	Method	AAT/GAP
Start	3210	End	3765
GI	none	Score	1068
Exons	3210..3765		

Seq. No.	53146	Seq. ID	OJ990317_04.0421.C103
Gene No.	112036	Strand	-
Start	4070	End	4546
Name	OJ990317_04.0421.C103.o3.gp	Method	AAT/GAP
Start	4070	End	4546
GI	none	Score	822
Exons	4070..4546		

Seq. No.	53146	Seq. ID	OJ990317_04.0421.C103
Gene No.	112037	Strand	-
Start	6015	End	6839
Name	OJ990317_04.0421.C103.o3.gs	Method	GENSCAN
Start	6015	End	6833
GI	none	Score	.7
Exons	6015..6104, 6765..6833		

Seq. No.	53146	Seq. ID	OJ990317_04.0421.C103
Gene No.	112037	Strand	-

Start	6015	End	6839
Name	OJ990317_04.0421.C103.o2.np	Method	AAT/NAP
Start	6018	End	6839
GI	6498434	Score	131
Exons	6018..6102, 6787..6839		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	53147	Seq. ID	OJ990317_04.0421.C104
Gene No.	112038	Strand	+
Start	105	End	626
Name	OJ990317_04.0421.C104.o1.gs	Method	GENSCAN
Start	105	End	626
GI	none	Score	.57
Exons	105..147, 457..626		

Seq. No.	53148	Seq. ID	OJ990317_04.0421.C105
Gene No.	112039	Strand	-
Start	401	End	601
Name	OJ990317_04.0421.C105.o1.gs	Method	GENSCAN
Start	401	End	601
GI	none	Score	.57
Exons	401..601		

Seq. No.	53149	Seq. ID	OJ990317_09.0421.C4
Gene No.	112040	Strand	-
Start	1	End	1107
Name	OJ990317_09.0421.C4.o1.np	Method	AAT/NAP
Start	1	End	1107
GI	7228457	Score	1714
Exons	1..504, 568..1107		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	53149	Seq. ID	OJ990317_09.0421.C4
Gene No.	112040	Strand	-
Start	1	End	1107
Name	OJ990317_09.0421.C4.o1.tm	Method	TBLASTX:Maize
Start	20	End	366
GI	none	Score	205
Exons	20..244, 23..331, 25..366		

Seq. No.	53149	Seq. ID	OJ990317_09.0421.C4
Gene No.	112040	Strand	-
Start	1	End	1107
Name	OJ990317_09.0421.C4.o1.tw	Method	TBLASTX:Wheat
Start	34	End	497
GI	none	Score	408
Exons	34..495, 41..496, 309..497		

Seq. No.	53149	Seq. ID	OJ990317_09.0421.C4
Gene No.	112040	Strand	-
Start	1	End	1107
Name	OJ990317_09.0421.C4.o1.ts	Method	TBLASTX:Soybean
Start	91	End	456
GI	none	Score	117
Exons	91..225, 232..456		

Seq. No.	53149	Seq. ID	OJ990317_09.0421.C4
Gene No.	112040	Strand	-
Start	1	End	1107
Name	OJ990317_09.0421.C4.o2.tw	Method	TBLASTX:Wheat
Start	661	End	1107
GI	none	Score	175
Exons	661..1107, 692..952, 718..1107		

Seq. No.	53150	Seq. ID	OJ990317_09.0421.C6
Gene No.	112041	Strand	+
Start	1	End	939
Name	OJ990317_09.0421.C6.o1.np	Method	AAT/NAP
Start	1	End	939
GI	6730737	Score	223
Exons	1..72, 482..939		
GI Descrip.	(AC018849) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53150	Seq. ID	OJ990317_09.0421.C6
Gene No.	112041	Strand	+
Start	1	End	939
Name	OJ990317_09.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	434	End	768
GI	none	Score	71
Exons	434..547, 527..763, 529..768		

Seq. No.	53150	Seq. ID	OJ990317_09.0421.C6
Gene No.	112041	Strand	+
Start	1	End	939
Name	OJ990317_09.0421.C6.o1.gs	Method	GENSCAN
Start	437	End	880
GI	none	Score	.98
Exons	437..880		

Seq. No.	53150	Seq. ID	OJ990317_09.0421.C6
Gene No.	112041	Strand	+
Start	1	End	939
Name	OJ990317_09.0421.C6.o1.ts	Method	TBLASTX:Soybean
Start	526	End	763
GI	none	Score	262
Exons	526..747, 527..763		

Seq. No.	53150	Seq. ID	OJ990317_09.0421.C6
Gene No.	112041	Strand	+
Start	1	End	939
Name	OJ990317_09.0421.C6.o1.tw	Method	TBLASTX:Wheat
Start	526	End	715
GI	none	Score	209
Exons	526..714, 527..715		

Seq. No.	53150	Seq. ID	OJ990317_09.0421.C6
Gene No.	112041	Strand	+
Start	1	End	939
Name	OJ990317_09.0421.C6.o1.tc	Method	TBLASTX:Cress
Start	527	End	763
GI	none	Score	242
Exons	527..763, 532..759, 539..763		

Seq. No.	53151	Seq. ID	OJ990317_09.0421.C7
Gene No.	112042	Strand	+
Start	174	End	383
Name	OJ990317_09.0421.C7.o1.gs	Method	GENSCAN
Start	174	End	383
GI	none	Score	.82
Exons	174..383		

Seq. No.	53152	Seq. ID	OJ990317_09.0421.C8
Gene No.	112043	Strand	+
Start	1	End	812
Name	OJ990317_09.0421.C8.o1.np	Method	AAT/NAP
Start	1	End	812
GI	6063557	Score	119
Exons	1..43, 114..300, 788..812		
GI Descrip.	(AP000615) similar to dJ522J7.2 (Z98885) [Oryza sativa]		

Seq. No.	53152	Seq. ID	OJ990317_09.0421.C8
Gene No.	112043	Strand	+
Start	1	End	812
Name	OJ990317_09.0421.C8.o1.gp	Method	AAT/GAP
Start	155	End	591
GI	uC-osflcyp169h02b1	Score	761
Exons	155..591		
GI Descrip.	'6063530/dbj|AP000615.1|AP000615 3.0e-33 Oryza sativa genomic DNA, chromosome 3, clone:P0043E01'		

Seq. No.	53153	Seq. ID	OJ990317_09.0421.C13
Gene No.	112044	Strand	+
Start	1	End	743
Name	OJ990317_09.0421.C13.o2.np	Method	AAT/NAP
Start	1	End	743
GI	5689012	Score	177
Exons	1..38, 137..274, 713..743		
GI Descrip.	(AB020622) similar to SWISS-PROT:p06402 [Dumortiera hirsuta]		

Seq. No.	53153	Seq. ID	OJ990317_09.0421.C13
Gene No.	112044	Strand	+
Start	1	End	743
Name	OJ990317_09.0421.C13.o1.np	Method	AAT/NAP
Start	16	End	743
GI	3421409	Score	159
Exons	16..135, 675..743		
GI Descrip.	(AF082025) ABC transporter CcbB [Triticum aestivum] gi|3435250 (AF082026) ABC transporter CcbB [Triticum aestivum]		

Seq. No.	53153	Seq. ID	OJ990317_09.0421.C13
Gene No.	112044	Strand	+
Start	1	End	743
Name	OJ990317_09.0421.C13.o1.gp	Method	AAT/GAP
Start	135	End	274
GI	5455469	Score	242
Exons	135..274		
GI Descrip.	131251/sp|P12094|PSBA_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi_72661_pir__FMRZ32 photosystem II protein D1 precursor - rice		

chloroplast >gi_11958_emb_CAA34007_ (X15901) PSII 32kDa protein [Oryza sativa] >gi_343212 (M36191) Q-B protein (psbA) [Oryza sativa] >gi_226249_prf__1503143A psbA gene [Oryza sativa] >gi_226406_prf__15

Seq. No.	53153	Seq. ID	OJ990317_09.0421.C13
Gene No.	112044	Strand	+
Start	1	End	743
Name	OJ990317_09.0421.C13.o3.np	Method	AAT/NAP
Start	275	End	743
GI	133416	Score	90
Exons	275..371, 715..743		
GI Descrip.	DNA-DIRECTED RNA POLYMERASE BETA CHAIN gi|66970|pir||RNRZB DNA-directed RNA polymerase (EC 2.7.7.6) beta chain - rice chloroplast gi|11971|emb|CAA33986| (X15901) RNA polymerase beta subunit [Oryza sativa]		

Seq. No.	53153	Seq. ID	OJ990317_09.0421.C13
Gene No.	112044	Strand	+
Start	1	End	743
Name	OJ990317_09.0421.C13.o1.gs	Method	GENSCAN
Start	389	End	593
GI	none	Score	.99
Exons	389..593		

Seq. No.	53153	Seq. ID	OJ990317_09.0421.C13
Gene No.	112045	Strand	-
Start	1	End	743
Name	OJ990317_09.0421.C13.o4.np	Method	AAT/NAP
Start	1	End	743
GI	629811	Score	98
Exons	1..53, 540..743		
GI Descrip.	hypothetical protein 33 (coxI 5' region) - rice mitochondrion gi|870713 (M57903) unknown protein [Oryza sativa]		

Seq. No.	53153	Seq. ID	OJ990317_09.0421.C13
Gene No.	112045	Strand	-
Start	1	End	743
Name	OJ990317_09.0421.C13.o1.tc	Method	TBLASTX:Cress
Start	137	End	273
GI	none	Score	215
Exons	137..265, 138..272, 139..273		

Seq. No.	53154	Seq. ID	OJ990317_09.0421.C14
Gene No.	112046	Strand	+
Start	129	End	720
Name	OJ990317_09.0421.C14.o1.gs	Method	GENSCAN
Start	129	End	720
GI	none	Score	.7
Exons	129..217, 646..720		

Seq. No.	53155	Seq. ID	OJ990317_09.0421.C15
Gene No.	112047	Strand	+
Start	812	End	6002
Name	OJ990317_09.0421.C15.o1.gs	Method	GENSCAN
Start	812	End	6002
GI	none	Score	.75

Exons	812..900, 1327..1401, 3834..3861, 4994..5075, 5819..6002		
Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112048	Strand	+
Start	6415	End	7743
Name	OJ990317_09.0421.C16.o2.gs	Method	GENSCAN
Start	6415	End	7743
GI	none	Score	.89
Exons	6415..6473, 6602..6676, 6717..6867, 7081..7743		
Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112049	Strand	+
Start	12802	End	16694
Name	OJ990317_09.0421.C16.o1.gp	Method	AAT/GAP
Start	12746	End	13884
GI	17186_1.R1084	Score	1209
Exons	12746..13035, 13162..13353, 13712..13884		
GI Descrip.	'1620371/emb|CAA70035| 3.0e-65 (Y08782) peroxidase ATP23a [Arabidopsis thaliana]'		
Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112049	Strand	+
Start	12802	End	16694
Name	OJ990317_09.0421.C16.o3.gs	Method	GENSCAN
Start	12802	End	16694
GI	none	Score	.86
Exons	12802..13035, 13162..13353, 13712..13877, 14290..14664, 14771..14855, 15879..16050, 16326..16694		
Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112049	Strand	+
Start	12802	End	16694
Name	OJ990317_09.0421.C16.o2.np	Method	AAT/NAP
Start	12820	End	14699
GI	1620371	Score	879
Exons	12820..13035, 13162..13353, 13712..13877, 14290..14699		
GI Descrip.	(Y08782) peroxidase ATP23a [Arabidopsis thaliana] gi|6358761|gb|AAF07343.1|AC011665_2 (AC011665) peroxidase ATP23a [Arabidopsis thaliana] gi|6524176|gb|AAF15061.1|AC011914_3 (AC011914) peroxidase ATP23a [Arabidopsis thaliana]		
Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112049	Strand	+
Start	12802	End	16694
Name	OJ990317_09.0421.C16.o2.gp	Method	AAT/GAP
Start	14464	End	14901
GI	93859_1.R1084	Score	842
Exons	14464..14901		
GI Descrip.	'2462749 5.0e-43 (AC002292) Putative Serine/Threonine protein kinase [Arabidopsis thaliana]'		
Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112050	Strand	-
Start	1522	End	5401
Name	OJ990317_09.0421.C16.o1.gs	Method	GENSCAN
Start	1522	End	5401
GI	none	Score	.73

Exons	1522..1583, 2620..2959, 3597..4459, 4556..4600, 5344..5401		
Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112050	Strand	-
Start	1522	End	5401
Name	OJ990317_09.0421.C16.o1.np	Method	AAT/NAP
Start	2603	End	4372
GI	1507699	Score	637
Exons	2603..2959, 3588..3742, 3800..3935, 3990..4372		
GI Descrip.	(L81119) COL2 [Arabidopsis thaliana] gi|1507701 (L81120) COL2 [Arabidopsis thaliana] gi|6957702|gb|AAF32446.1| (AC021640) COL2 [Arabidopsis thaliana]		
Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112051	Strand	-
Start	17112	End	17440
Name	OJ990317_09.0421.C16.o3.gp	Method	AAT/GAP
Start	17112	End	17440
GI	4715219	Score	594
Exons	17112..17440		
GI Descrip.	5441872/dbj|AP000366.1|AP000366 2.0e-24 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig a)		
Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112052	Strand	-
Start	17538	End	19114
Name	OJ990317_09.0421.C16.o2.tm	Method	TBLASTX:Maize
Start	2453	End	2951
GI	none	Score	34
Exons	2453..2500, 2593..2634, 2594..2635, 2600..2650, 2601..2645, 2633..2680, 2633..2689, 2676..2861, 2677..2751, 2681..2857, 2815..2862, 2855..2890, 2873..2908, 2908..2943, 2910..2951		
Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112052	Strand	-
Start	17538	End	19114
Name	OJ990317_09.0421.C16.o2.tc	Method	TBLASTX:Cress
Start	2600	End	4331
GI	none	Score	178
Exons	2600..2956, 2610..2858, 2904..2957, 3804..3875, 4092..4115, 4194..4301, 4194..4286, 4195..4302, 4296..4331		
Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112052	Strand	-
Start	17538	End	19114
Name	OJ990317_09.0421.C16.o3.ts	Method	TBLASTX:Soybean
Start	2639	End	2971
GI	none	Score	122
Exons	2639..2842, 2661..2819, 2909..2971		
Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112052	Strand	-
Start	17538	End	19114
Name	OJ990317_09.0421.C16.o5.tm	Method	TBLASTX:Maize
Start	7744	End	11077
GI	none	Score	113
Exons	7744..7854, 8195..8272, 8345..8530, 10532..10759, 10760..10957,		

10967..11077

Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112052	Strand	-
Start	17538	End	19114
Name	OJ990317_09.0421.C16.o1.ts	Method	TBLASTX:Soybean
Start	12799	End	14696
GI	none	Score	121
Exons	12799..13035, 12912..13034, 13156..13356, 13161..13307, 13703..13792, 14283..14342, 14427..14543, 14664..14696		

Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112052	Strand	-
Start	17538	End	19114
Name	OJ990317_09.0421.C16.o1.tm	Method	TBLASTX:Maize
Start	12873	End	14510
GI	none	Score	252
Exons	12873..13031, 12883..13035, 12883..13041, 13152..13310, 13156..13356, 13157..13354, 13674..13877, 13702..13878, 13703..13879, 14274..14405, 14285..14509, 14289..14510		

Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112052	Strand	-
Start	17538	End	19114
Name	OJ990317_09.0421.C16.o1.tc	Method	TBLASTX:Cress
Start	12898	End	14722
GI	none	Score	162
Exons	12898..13035, 12921..13031, 12940..13038, 13156..13356, 13161..13307, 13711..13878, 13712..13879, 14264..14416, 14265..14432, 14427..14654, 14459..14647, 14643..14702, 14651..14722		

Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112052	Strand	-
Start	17538	End	19114
Name	OJ990317_09.0421.C16.o2.tw	Method	TBLASTX:Wheat
Start	12898	End	13347
GI	none	Score	105
Exons	12898..13035, 12936..13031, 13152..13241, 13156..13233, 13237..13347, 13240..13329		

Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112052	Strand	-
Start	17538	End	19114
Name	OJ990317_09.0421.C16.o4.tm	Method	TBLASTX:Maize
Start	14510	End	14702
GI	none	Score	303
Exons	14510..14701, 14511..14702		

Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112052	Strand	-
Start	17538	End	19114
Name	OJ990317_09.0421.C16.o1.tw	Method	TBLASTX:Wheat
Start	17529	End	17888
GI	none	Score	91
Exons	17529..17609, 17536..17610, 17715..17888, 17719..17841		

Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112052	Strand	-
Start	17538	End	19114
Name	OJ990317_09.0421.C16.o3.tm	Method	TBLASTX:Maize
Start	17533	End	17888
GI	none	Score	99
Exons	17533..17610, 17535..17609, 17712..17888, 17719..17862		

Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112052	Strand	-
Start	17538	End	19114
Name	OJ990317_09.0421.C16.o2.ts	Method	TBLASTX:Soybean
Start	17538	End	17888
GI	none	Score	83
Exons	17538..17603, 17539..17601, 17712..17888, 17713..17841		

Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112052	Strand	-
Start	17538	End	19114
Name	OJ990317_09.0421.C16.o3.tc	Method	TBLASTX:Cress
Start	17538	End	17888
GI	none	Score	92
Exons	17538..17609, 17712..17888, 17713..17841		

Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112052	Strand	-
Start	17538	End	19114
Name	OJ990317_09.0421.C16.o4.gs	Method	GENSCAN
Start	17538	End	17912
GI	none	Score	.44
Exons	17538..17912		

Seq. No.	53156	Seq. ID	OJ990317_09.0421.C16
Gene No.	112052	Strand	-
Start	17538	End	19114
Name	OJ990317_09.0421.C16.o3.np	Method	AAT/NAP
Start	17541	End	19114
GI	2462749	Score	255
Exons	17541..17906, 19026..19114		
GI Descrip.	(AC002292) Putative Serine/Threonine protein kinase [Arabidopsis thaliana]		

Seq. No.	53157	Seq. ID	OJ990317_09.0421.C17
Gene No.	112053	Strand	-
Start	197	End	5614
Name	OJ990317_09.0421.C17.o1.np	Method	AAT/NAP
Start	197	End	5504
GI	7269953	Score	1269
Exons	197..588, 2308..2649, 4102..4205, 4311..4370, 4853..4992, 5106..5181, 5283..5504		
GI Descrip.	(AL161577) receptor-like kinase homolog [Arabidopsis thaliana]		

Seq. No.	53157	Seq. ID	OJ990317_09.0421.C17
Gene No.	112053	Strand	-
Start	197	End	5614
Name	OJ990317_09.0421.C17.o1.gs	Method	GENSCAN
Start	209	End	5614

GI	none	Score	.53
Exons	209..623, 1638..1893, 2308..2649, 3596..3733, 3952..4205, 4311..4370, 4853..4996, 5283..5415, 5518..5614		

Seq. No.	53157	Seq. ID	OJ990317_09.0421.C17
Gene No.	112053	Strand	-
Start	197	End	5614
Name	OJ990317_09.0421.C17.o1.gp	Method	AAT/GAP
Start	464	End	2566
GI	4715218	Score	719
Exons	464..588, 2308..2566		
GI Descrip.	2462749 5.0e-43 (AC002292) Putative Serine/Threonine protein kinase [Arabidopsis thaliana]		

Seq. No.	53157	Seq. ID	OJ990317_09.0421.C17
Gene No.	112053	Strand	-
Start	197	End	5614
Name	OJ990317_09.0421.C17.o2.gp	Method	AAT/GAP
Start	2846	End	3282
GI	uC-osflcyp169h02b1	Score	761
Exons	2846..3282		
GI Descrip.	'6063530/dbj|AP000615.1|AP000615 3.0e-33 Oryza sativa genomic DNA, chromosome 3, clone:P0043E01'		

Seq. No.	53157	Seq. ID	OJ990317_09.0421.C17
Gene No.	112054	Strand	-
Start	11676	End	15275
Name	OJ990317_09.0421.C17.o1.tc	Method	TBLASTX:Cress
Start	204	End	542
GI	none	Score	271
Exons	204..542, 206..541		

Seq. No.	53157	Seq. ID	OJ990317_09.0421.C17
Gene No.	112054	Strand	-
Start	11676	End	15275
Name	OJ990317_09.0421.C17.o1.ts	Method	TBLASTX:Soybean
Start	206	End	2656
GI	none	Score	41
Exons	206..235, 206..238, 236..586, 240..413, 489..584, 2304..2531, 2306..2656, 2580..2651		

Seq. No.	53157	Seq. ID	OJ990317_09.0421.C17
Gene No.	112054	Strand	-
Start	11676	End	15275
Name	OJ990317_09.0421.C17.o2.tm	Method	TBLASTX:Maize
Start	215	End	590
GI	none	Score	184
Exons	215..589, 291..590		

Seq. No.	53157	Seq. ID	OJ990317_09.0421.C17
Gene No.	112054	Strand	-
Start	11676	End	15275
Name	OJ990317_09.0421.C17.o1.tw	Method	TBLASTX:Wheat
Start	263	End	629
GI	none	Score	49
Exons	263..577, 342..389, 486..629		

Seq. No.	53157	Seq. ID	OJ990317_09.0421.C17
Gene No.	112054	Strand	-
Start	11676	End	15275
Name	OJ990317_09.0421.C17.o2.tc	Method	TBLASTX:Cress
Start	542	End	2638
GI	none	Score	172
Exons	542..589, 2309..2638, 2316..2531, 2423..2608		

Seq. No.	53157	Seq. ID	OJ990317_09.0421.C17
Gene No.	112054	Strand	-
Start	11676	End	15275
Name	OJ990317_09.0421.C17.o1.tm	Method	TBLASTX:Maize
Start	2324	End	4069
GI	none	Score	194
Exons	2324..2656, 2325..2531, 2423..2635, 2580..2654, 3953..4069, 3954..4067		

Seq. No.	53157	Seq. ID	OJ990317_09.0421.C17
Gene No.	112054	Strand	-
Start	11676	End	15275
Name	OJ990317_09.0421.C17.o3.tm	Method	TBLASTX:Maize
Start	4082	End	5426
GI	none	Score	99
Exons	4082..4207, 4083..4211, 4313..4375, 4317..4376, 4567..4617, 4568..4630, 4569..4631, 4831..4995, 4835..4996, 4849..4995, 4853..4996, 5109..5180, 5110..5181, 5270..5419, 5283..5426		

Seq. No.	53157	Seq. ID	OJ990317_09.0421.C17
Gene No.	112054	Strand	-
Start	11676	End	15275
Name	OJ990317_09.0421.C17.o2.ts	Method	TBLASTX:Soybean
Start	4313	End	5420
GI	none	Score	119
Exons	4313..4375, 4852..4995, 4853..4990, 4888..4992, 5109..5174, 5115..5162, 5270..5416, 5276..5416, 5283..5420		

Seq. No.	53157	Seq. ID	OJ990317_09.0421.C17
Gene No.	112054	Strand	-
Start	11676	End	15275
Name	OJ990317_09.0421.C17.o3.tc	Method	TBLASTX:Cress
Start	4831	End	5420
GI	none	Score	116
Exons	4831..4992, 4853..4990, 5106..5177, 5107..5178, 5282..5416, 5283..5420		

Seq. No.	53157	Seq. ID	OJ990317_09.0421.C17
Gene No.	112054	Strand	-
Start	11676	End	15275
Name	OJ990317_09.0421.C17.o3.gs	Method	GENSCAN
Start	11676	End	15275
GI	none	Score	.59
Exons	11676..11783, 14550..14700, 15178..15275		

Seq. No.	53158	Seq. ID	OJ990317_09.0421.C18
Gene No.	112055	Strand	+
Start	399	End	2255
Name	OJ990317_09.0421.C18.o1.gs	Method	GENSCAN

Start	399	End	2149
GI	none	Score	.75
Exons	399..545, 780..989, 1045..2149		

Seq. No.	53158	Seq. ID	OJ990317_09.0421.C18
Gene No.	112055	Strand	+
Start	399	End	2255
Name	OJ990317_09.0421.C18.o1.np	Method	AAT/NAP
Start	399	End	2255
GI	5042454	Score	2102
Exons	399..549, 883..989, 1045..2255		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	53158	Seq. ID	OJ990317_09.0421.C18
Gene No.	112055	Strand	+
Start	399	End	2255
Name	OJ990317_09.0421.C18.o1.tw	Method	TBLASTX:Wheat
Start	1717	End	2109
GI	none	Score	58
Exons	1717..1764, 1771..1869, 1776..1868, 1836..2075, 1852..2109		

Seq. No.	53158	Seq. ID	OJ990317_09.0421.C18
Gene No.	112055	Strand	+
Start	399	End	2255
Name	OJ990317_09.0421.C18.o1.tm	Method	TBLASTX:Maize
Start	1722	End	2007
GI	none	Score	199
Exons	1722..2006, 1759..2007		

Seq. No.	53159	Seq. ID	OJ990317_09.0421.C20
Gene No.	112056	Strand	+
Start	70	End	655
Name	OJ990317_09.0421.C20.o1.gs	Method	GENSCAN
Start	70	End	655
GI	none	Score	.6
Exons	70..106, 159..655		

Seq. No.	53159	Seq. ID	OJ990317_09.0421.C20
Gene No.	112057	Strand	-
Start	1	End	751
Name	OJ990317_09.0421.C20.o1.np	Method	AAT/NAP
Start	1	End	751
GI	6498441	Score	1197
Exons	1..751		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	53159	Seq. ID	OJ990317_09.0421.C20
Gene No.	112057	Strand	-
Start	1	End	751
Name	OJ990317_09.0421.C20.o1.tw	Method	TBLASTX:Wheat
Start	470	End	731
GI	none	Score	85
Exons	470..727, 504..731		

Seq. No.	53160	Seq. ID	OJ990317_09.0421.C22

Gene No.	112058	Strand	+
Start	1	End	1392
Name	OJ990317_09.0421.C22.o1.np	Method	AAT/NAP
Start	1	End	1392
GI	131326	Score	176
Exons	1..217, 1341..1392		
GI Descrip.	NADH-PLASTOQUINONE OXIDOREDUCTASE SUBUNIT K gi|100799|pir||S09666 psbG protein - wheat chloroplast gi|556460 (J04954) thylakoid membrane protein [Triticum aestivum]		

Seq. No.	53160	Seq. ID	OJ990317_09.0421.C22
Gene No.	112059	Strand	+
Start	1317	End	1458
Name	OJ990317_09.0421.C22.o1.gs	Method	GENSCAN
Start	1317	End	1458
GI	none	Score	.41
Exons	1317..1458		

Seq. No.	53160	Seq. ID	OJ990317_09.0421.C22
Gene No.	112060	Strand	+
Start	1593	End	1724
Name	OJ990317_09.0421.C22.o1.gp	Method	AAT/GAP
Start	1593	End	1724
GI	3767421	Score	233
Exons	1593..1724		

Seq. No.	53160	Seq. ID	OJ990317_09.0421.C22
Gene No.	112061	Strand	-
Start	1	End	1997
Name	OJ990317_09.0421.C22.o2.np	Method	AAT/NAP
Start	1	End	1997
GI	133431	Score	104
Exons	1..113, 832..940, 1976..1997		
GI Descrip.	DNA-DIRECTED RNA POLYMERASE BETA' CHAIN gi|66984|pir||RNZMB1 DNA-directed RNA polymerase (EC 2.7.7.6) beta'-1 chain - maize chloroplast gi|12481|emb|CAA35196| (X17318) RNA polymerase beta-1 subunit (AA 1-683) [Zea mays] gi|902213|emb|CAA60277| (X86563) RNA polymerase beta' subunit 1 [Zea mays]		

Seq. No.	53160	Seq. ID	OJ990317_09.0421.C22
Gene No.	112061	Strand	-
Start	1	End	1997
Name	OJ990317_09.0421.C22.o1.tm	Method	TBLASTX:Maize
Start	87	End	217
GI	none	Score	206
Exons	87..215, 92..214, 105..215, 155..217, 175..216		

Seq. No.	53160	Seq. ID	OJ990317_09.0421.C22
Gene No.	112061	Strand	-
Start	1	End	1997
Name	OJ990317_09.0421.C22.o1.ts	Method	TBLASTX:Soybean
Start	87	End	286
GI	none	Score	188
Exons	87..212, 92..205, 97..213, 111..209, 155..220, 215..286		

Seq. No.	53160	Seq. ID	OJ990317_09.0421.C22
Gene No.	112061	Strand	-

Start	1	End	1997
Name	OJ990317_09.0421.C22.o1.tw	Method	TBLASTX:Wheat
Start	87	End	215
GI	none	Score	191
Exons	87..212, 88..213, 92..214, 105..215		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112062	Strand	+
Start	273	End	2634
Name	OJ990317_09.0421.C23.o2.np	Method	AAT/NAP
Start	273	End	2634
GI	459537	Score	82
Exons	273..333, 2549..2634		
GI Descrip.	(X78036) orf454; homology with two ORFs from Marchantia polymorpha mtDNA (orf169 and orf322), high similarity to 3'-terminal part of ccl1 of Rhodobacter [Oenothera berteriana] gi|1581174|prf||2116373A ORF 454 [Oenothera berteriana]		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112062	Strand	+
Start	273	End	2634
Name	OJ990317_09.0421.C23.o3.np	Method	AAT/NAP
Start	598	End	715
GI	226689	Score	128
Exons	598..715		
GI Descrip.	RNA polymerase beta [Oryza sativa]		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112062	Strand	+
Start	273	End	2634
Name	OJ990317_09.0421.C23.o4.np	Method	AAT/NAP
Start	1538	End	1631
GI	629811	Score	83
Exons	1538..1631		
GI Descrip.	hypothetical protein 33 (coxI 5' region) - rice mitochondrion gi|870713 (M57903) unknown protein [Oryza sativa]		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112063	Strand	+
Start	3480	End	11543
Name	OJ990317_09.0421.C23.o9.np	Method	AAT/NAP
Start	3480	End	11537
GI	7484880	Score	1880
Exons	3480..3533, 3864..3965, 4074..4393, 5184..5345, 6068..6152, 6269..6418, 6505..6552, 6622..6730, 6871..7517, 8343..8454, 8515..8773, 9272..9403, 10233..10323, 10795..10842, 10921..11049, 11274..11537		
GI Descrip.	curly leaf protein homolog F26B6.3 - Arabidopsis thaliana gi|3242729|gb|AAC23781.1| (AC003040) curly leaf protein (polycomb-group) [Arabidopsis thaliana]		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112063	Strand	+
Start	3480	End	11543
Name	OJ990317_09.0421.C23.o3.gs	Method	GENSCAN
Start	5090	End	11543
GI	none	Score	.62

Exons	5090..5130, 5184..5345, 6068..6152, 6269..6418, 6814..7008, 7261..7517, 8343..8478, 8553..8773, 9272..9403, 10233..10323, 10795..10842, 10921..11049, 11274..11543		
Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112064	Strand	+
Start	12606	End	17730
Name	OJ990317_09.0421.C23.o4.gs	Method	GENSCAN
Start	12606	End	17116
GI	none	Score	.72
Exons	12606..12662, 12847..12945, 13281..13439, 14142..14180, 14291..14318, 14636..15252, 15342..15515, 15655..15720, 16123..16314, 17030..17116		
Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112064	Strand	+
Start	12606	End	17730
Name	OJ990317_09.0421.C23.o10.np	Method	AAT/NAP
Start	13522	End	16749
GI	7487656	Score	259
Exons	13522..13551, 15433..15566, 15655..15720, 15803..15871, 15970..16131, 16637..16749		
GI Descrip.	hypothetical protein T4L20.110 - Arabidopsis thaliana gi|3096922|emb|CAA18832.1| (AL023094) putative protein [Arabidopsis thaliana] gi|7270403|emb|CAB80170.1| (AL161585) putative protein [Arabidopsis thaliana]		
Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112064	Strand	+
Start	12606	End	17730
Name	OJ990317_09.0421.C23.o3.gp	Method	AAT/GAP
Start	16129	End	17730
GI	42705_1.R1084	Score	1665
Exons	16129..16314, 17030..17730		
GI Descrip.	'131251/sp|P12094|PSBA_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi_72661_pir__FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi_11958_emb_CAA34007_ (X15901) PSII 32kDa protein [Oryza sativa] >gi_343212 (M36191) Q-B protein (psbA) [Oryza sativa] >gi_226249_prf__1503143A psbA gene [Oryza sativa] >gi_226406_prf__15'		
Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112065	Strand	+
Start	17954	End	18576
Name	OJ990317_09.0421.C23.o4.gp	Method	AAT/GAP
Start	17954	End	18576
GI	none	Score	1026
Exons	17954..18576		
Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112066	Strand	+
Start	21779	End	22127
Name	OJ990317_09.0421.C23.o7.gp	Method	AAT/GAP
Start	21779	End	22127
GI	3551787	Score	663
Exons	21779..22127		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112067	Strand	+
Start	37082	End	40945
Name	OJ990317_09.0421.C23.o7.gs	Method	GENSCAN
Start	37082	End	40945
GI	none	Score	.63
Exons	37082..37163, 37556..37563, 38075..38184, 38301..38663, 40657..40945		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112067	Strand	+
Start	37082	End	40945
Name	OJ990317_09.0421.C23.o8.gp	Method	AAT/GAP
Start	39200	End	39280
GI	LIB3434-017-P1-K1-F5	Score	88
Exons	39200..39280		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 5.0e-20 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112067	Strand	+
Start	37082	End	40945
Name	OJ990317_09.0421.C23.o9.gp	Method	AAT/GAP
Start	40393	End	40485
GI	uC-osf1cyp088b12b1	Score	145
Exons	40393..40485		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112068	Strand	-
Start	1	End	217
Name	OJ990317_09.0421.C23.o1.np	Method	AAT/NAP
Start	1	End	217
GI	82486	Score	103
Exons	1..217		
GI Descrip.	hypothetical protein 3 - rice gi|20381|emb|CAA29824| (X06611) put. ORF 1 [Oryza sativa]		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112069	Strand	-
Start	514	End	621
Name	OJ990317_09.0421.C23.o1.gp	Method	AAT/GAP
Start	514	End	621
GI	LIB3432-043-P1-K1-H9	Score	143
Exons	514..621		
GI Descrip.	'131251/sp|P12094|PSBA_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi_72661_pir__FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi_11958_emb_CAA34007_ (X15901) PSII 32kDa protein [Oryza sativa] >gi_343212 (M36191) Q-B protein (psbA) [Oryza sativa] >gi_226249_prf__1503143A psbA gene [Oryza sativa] >gi_226406_prf__15'		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112070	Strand	-

Start	538	End	4196
Name	OJ990317_09.0421.C23.o6.np	Method	AAT/NAP
Start	538	End	2155
GI	3421409	Score	157
Exons	538..638, 2036..2155		
GI Descrip.	(AF082025) ABC transporter CcbB [Triticum aestivum] gi|3435250 (AF082026) ABC transporter CcbB [Triticum aestivum]		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112070	Strand	-
Start	538	End	4196
Name	OJ990317_09.0421.C23.o7.np	Method	AAT/NAP
Start	697	End	4196
GI	2129782	Score	92
Exons	697..758, 2165..2259, 4157..4196		
GI Descrip.	NADH-ubiquinone oxidoreductase chain II - Arabidopsis thaliana mitochondrion gi|1536885|emb|CAA65381| (X96535) NADH-ubiquinone oxidoreductase [Arabidopsis thaliana] gi|6851016|emb|CAA69771.3| (Y08501) NADH dehydrogenase subunit 2 [Arabidopsis thaliana]		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112070	Strand	-
Start	538	End	4196
Name	OJ990317_09.0421.C23.o8.np	Method	AAT/NAP
Start	941	End	2678
GI	7434214	Score	128
Exons	941..1009, 2506..2678		
GI Descrip.	pyrophosphate-dependent phosphofructo-1-kinase homolog T17A13.40 - Arabidopsis thaliana gi|7269820|emb|CAB79680.1| (AL161574) pyrophosphate-dependent phosphofructo-1-kinase-like protein [Arabidopsis thaliana]		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112070	Strand	-
Start	538	End	4196
Name	OJ990317_09.0421.C23.o5.np	Method	AAT/NAP
Start	1811	End	2928
GI	3132603	Score	196
Exons	1811..2034, 2876..2928		
GI Descrip.	(AF061287) D1 protein [Senecio vulgaris]		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112070	Strand	-
Start	538	End	4196
Name	OJ990317_09.0421.C23.o2.gp	Method	AAT/GAP
Start	1897	End	2036
GI	5455469	Score	242
Exons	1897..2036		
GI Descrip.	131251/sp|P12094|PSBA_ORYSA 8.0e-56 PHOTOSYSTEM Q(B) PROTEIN (32 KD THYLAKOID MEMBRANE PROTEIN) (PHOTOSYSTEM II PROTEIN D1) >gi_72661_pir__FMRZ32 photosystem II protein D1 precursor - rice chloroplast >gi_11958_emb_CAA34007_ (X15901) PSII 32kDa protein [Oryza sativa] >gi_343212 (M36191) Q-B protein (psbA) [Oryza sativa] >gi_226249_prf__1503143A psbA gene [Oryza sativa] >gi_226406_prf__15		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23

Gene No.	112070	Strand	-
Start	538	End	4196
Name	OJ990317_09.0421.C23.o2.gs	Method	GENSCAN
Start	2400	End	3637
GI	none	Score	.8
Exons	2400..2636, 2733..2924, 3467..3637		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112071	Strand	-
Start	18277	End	26323
Name	OJ990317_09.0421.C23.o5.gp	Method	AAT/GAP
Start	17954	End	18576
GI	none	Score	1027
Exons	17954..18576		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112071	Strand	-
Start	18277	End	26323
Name	OJ990317_09.0421.C23.o5.gs	Method	GENSCAN
Start	18277	End	26323
GI	none	Score	.76
Exons	18277..19934, 20272..20581, 20727..21825, 22532..22617, 23061..23131, 24857..25069, 26311..26323		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112071	Strand	-
Start	18277	End	26323
Name	OJ990317_09.0421.C23.o11.np	Method	AAT/NAP
Start	18289	End	23086
GI	6358765	Score	1586
Exons	18289..18774, 18808..19934, 20272..20592, 20732..21237, 23061..23086		
GI Descrip.	(AC011665) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112071	Strand	-
Start	18277	End	26323
Name	OJ990317_09.0421.C23.o6.gp	Method	AAT/GAP
Start	18646	End	19256
GI	none	Score	1090
Exons	18646..19256		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112072	Strand	-
Start	30409	End	35724
Name	OJ990317_09.0421.C23.o6.gs	Method	GENSCAN
Start	30409	End	35724
GI	none	Score	.58
Exons	30409..30440, 30480..30674, 34656..34789, 35002..35056, 35703..35724		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o2.tc	Method	TBLASTX:Cress
Start	1898	End	2034
GI	none	Score	142

Exons	1898..2032, 1899..2033, 1906..2034		
Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o5.ts	Method	TBLASTX:Soybean
Start	2506	End	2733
GI	none	Score	109
Exons	2506..2673, 2508..2672, 2671..2733		
Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o9.tm	Method	TBLASTX:Maize
Start	2506	End	2733
GI	none	Score	120
Exons	2506..2673, 2508..2672, 2671..2733		
Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o5.tm	Method	TBLASTX:Maize
Start	3878	End	6149
GI	none	Score	85
Exons	3878..3961, 3879..3965, 4065..4277, 4071..4208, 4072..4296, 4072..4230, 4169..4276, 4277..4321, 4306..4395, 4326..4427, 4331..4426, 5174..5347, 5175..5345, 6060..6149, 6060..6149		
Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o1.tc	Method	TBLASTX:Cress
Start	4056	End	11506
GI	none	Score	47
Exons	4056..4178, 4281..4427, 5172..5267, 5173..5277, 5180..5335, 5182..5268, 6359..6397, 6361..6429, 6505..6552, 6652..6687, 8341..8430, 8350..8457, 8567..8770, 8567..8773, 8610..8774, 9233..9400, 9266..9400, 9267..9401, 10236..10325, 10237..10326, 10240..10344, 10792..10842, 10794..10847, 10915..11073, 10920..11042, 11261..11473, 11271..11501, 11272..11397, 11276..11506		
Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o6.tm	Method	TBLASTX:Maize
Start	6939	End	7238
GI	none	Score	184
Exons	6939..7154, 6939..7238, 6947..7186, 7024..7233, 7173..7238		
Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o4.tm	Method	TBLASTX:Maize
Start	7239	End	7517
GI	none	Score	309
Exons	7239..7517, 7246..7515		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o3.tm	Method	TBLASTX:Maize
Start	8554	End	11539
GI	none	Score	82
Exons	8554..8640, 8555..8656, 8558..8653, 8643..8774, 8651..8779, 8654..8776, 9266..9406, 9267..9404, 9271..9408, 9271..9408, 10232..10324, 10233..10325, 10233..10325, 10234..10326, 10788..10841, 10792..10842, 10794..10847, 10914..11048, 10915..11049, 10915..11064, 11242..11397, 11261..11539, 11271..11537, 11273..11539		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o3.ts	Method	TBLASTX:Soybean
Start	8672	End	11052
GI	none	Score	205
Exons	8672..8782, 8673..8774, 9266..9400, 9267..9401, 9274..9426, 10230..10343, 10234..10326, 10240..10344, 10242..10349, 10792..10842, 10794..10847, 10915..11052, 10918..11046, 10920..11051		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o1.ts	Method	TBLASTX:Soybean
Start	11271	End	11537
GI	none	Score	379
Exons	11271..11501, 11271..11468, 11276..11503, 11493..11537, 11495..11536		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o3.tc	Method	TBLASTX:Cress
Start	15459	End	16061
GI	none	Score	128
Exons	15459..15569, 15470..15568, 15652..15759, 15654..15725, 15802..15870, 15803..15871, 15967..16041, 15969..16061		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o1.tw	Method	TBLASTX:Wheat
Start	15468	End	16236
GI	none	Score	139
Exons	15468..15569, 15468..15566, 15470..15568, 15652..15759, 15655..15720, 15803..15871, 15807..15875, 15807..15869, 15967..16044, 15969..16040, 16141..16236, 16144..16236		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o7.tm	Method	TBLASTX:Maize

Start	15485	End	16041
GI	none	Score	120
Exons	15485..15565, 15486..15566, 15652..15723, 15663..15725, 15802..15885, 15803..15871, 15967..16041		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o4.ts	Method	TBLASTX:Soybean
Start	15494	End	16008
GI	none	Score	117
Exons	15494..15565, 15495..15566, 15652..15723, 15657..15725, 15798..15869, 15801..15869, 15802..15870, 15803..15871, 15967..16008		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o1.tm	Method	TBLASTX:Maize
Start	18784	End	19440
GI	none	Score	51
Exons	18784..18879, 18797..18826, 18826..18846, 18835..18972, 18869..18970, 18889..18972, 18970..19440, 18971..19438, 18973..19440		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o8.tm	Method	TBLASTX:Maize
Start	19441	End	19587
GI	none	Score	109
Exons	19441..19587, 19462..19587		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o2.tm	Method	TBLASTX:Maize
Start	20491	End	21069
GI	none	Score	89
Exons	20491..20583, 20498..20584, 20505..20582, 20712..21068, 20727..21068, 20917..21069		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o2.ts	Method	TBLASTX:Soybean
Start	20736	End	21308
GI	none	Score	49
Exons	20736..21050, 20941..20994, 21051..21308, 21052..21201		

Seq. No.	53161	Seq. ID	OJ990317_09.0421.C23
Gene No.	112073	Strand	-
Start	36620	End	41017
Name	OJ990317_09.0421.C23.o12.np	Method	AAT/NAP
Start	36620	End	41017
GI	5852178	Score	502
Exons	36620..36714, 37080..37180, 40708..41017		

GI Descrip. (AL117265) zhb0008.1 [Oryza sativa]

Seq. No.	53162	Seq. ID	OJ990317_09.0421.C24
Gene No.	112074	Strand	+
Start	1	End	10368
Name	OJ990317_09.0421.C24.o1.np	Method	AAT/NAP
Start	1	End	1810
GI	6598346	Score	614
Exons	1..61, 321..419, 585..820, 953..1449, 1709..1810		
GI Descrip.	(AC002336) unknown protein [Arabidopsis thaliana]		

Seq. No.	53162	Seq. ID	OJ990317_09.0421.C24
Gene No.	112074	Strand	+
Start	1	End	10368
Name	OJ990317_09.0421.C24.o1.gs	Method	GENSCAN
Start	282	End	10368
GI	none	Score	.81
Exons	282..477, 586..789, 959..1424, 1684..1759, 2731..2944, 3283..3472, 3888..4628, 4799..4884, 5667..5746, 6076..6131, 6917..7091, 7243..7338, 7692..7805, 7905..8035, 8421..8653, 10205..10368		

Seq. No.	53162	Seq. ID	OJ990317_09.0421.C24
Gene No.	112074	Strand	+
Start	1	End	10368
Name	OJ990317_09.0421.C24.o1.gp	Method	AAT/GAP
Start	624	End	1157
GI	LIB3431-061-P1-K1-C10	Score	653
Exons	624..789, 959..1157		
GI Descrip.	'466149/sp|P34648|YOT2_CAEEL 6.0e-21 HYPOTHETICAL 80.5 KD PROTEIN ZK632.2 IN CHROMOSOME III >gi_1078872_pir__S40934 hypothetical protein ZK632.2 - Caenorhabditis elegans >gi_3881693_emb_CAA80179.1_ (Z22181) similar to Coiled coil protein; cDNA EST EMBL:D35263 comes from this gene; cDNA EST yk231h11.3 comes from this gene; cDNA EST yk231h11.5 comes from this gene; cDNA EST yk418c1.3 comes '		

Seq. No.	53162	Seq. ID	OJ990317_09.0421.C24
Gene No.	112074	Strand	+
Start	1	End	10368
Name	OJ990317_09.0421.C24.o3.np	Method	AAT/NAP
Start	2650	End	4485
GI	7508218	Score	134
Exons	2650..2746, 2800..2986, 3437..3519, 3936..4485		
GI Descrip.	hypothetical protein T22D1.2 - Caenorhabditis elegans gi|2736513|gb|AAB94271.1| (AF039052) T22D1.2 gene product [Caenorhabditis elegans]		

Seq. No.	53162	Seq. ID	OJ990317_09.0421.C24
Gene No.	112074	Strand	+
Start	1	End	10368
Name	OJ990317_09.0421.C24.o2.gp	Method	AAT/GAP
Start	4482	End	7066
GI	2427687	Score	952
Exons	4482..4628, 4799..4884, 5667..5746, 6076..6131, 6288..6336, 6942..7066		
GI Descrip.	466149/sp|P34648|YOT2_CAEEL 6.0e-21 HYPOTHETICAL 80.5 KD PROTEIN		

ZK632.2 IN CHROMOSOME III >gi_1078872_pir__S40934 hypothetical protein ZK632.2 - Caenorhabditis elegans >gi_3881693_emb_CAA80179.1_ (Z22181) similar to Coiled coil protein; cDNA EST EMBL:D35263 comes from this gene; cDNA EST yk231h11.3 comes from this gene; cDNA EST yk231h11.5 comes from this gene; cDNA EST yk418c1.3 comes

Seq. No.	53162	Seq. ID	OJ990317_09.0421.C24
Gene No.	112075	Strand	+
Start	10313	End	10424
Name	OJ990317_09.0421.C24.o3.gp	Method	AAT/GAP
Start	10313	End	10424
GI	LIB3433-039-P1-K1-B12	Score	144
Exons	10313..10424		
GI Descrip.	'6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	53162	Seq. ID	OJ990317_09.0421.C24
Gene No.	112076	Strand	-
Start	3071	End	3615
Name	OJ990317_09.0421.C24.o1.tc	Method	TBLASTX:Cress
Start	313	End	1807
GI	none	Score	164
Exons	313..405, 321..476, 323..472, 324..476, 569..787, 570..788, 666..788, 685..789, 939..1418, 949..1425, 1329..1430, 1554..1646, 1682..1807		

Seq. No.	53162	Seq. ID	OJ990317_09.0421.C24
Gene No.	112076	Strand	-
Start	3071	End	3615
Name	OJ990317_09.0421.C24.o1.tm	Method	TBLASTX:Maize
Start	317	End	1804
GI	none	Score	138
Exons	317..472, 321..476, 572..787, 585..788, 949..1425, 958..1284, 972..1424, 1342..1437, 1682..1804, 1696..1803		

Seq. No.	53162	Seq. ID	OJ990317_09.0421.C24
Gene No.	112076	Strand	-
Start	3071	End	3615
Name	OJ990317_09.0421.C24.o1.ts	Method	TBLASTX:Soybean
Start	584	End	1440
GI	none	Score	172
Exons	584..769, 585..788, 940..1440, 951..1244, 1269..1436		

Seq. No.	53162	Seq. ID	OJ990317_09.0421.C24
Gene No.	112076	Strand	-
Start	3071	End	3615
Name	OJ990317_09.0421.C24.o2.np	Method	AAT/NAP
Start	3071	End	3615
GI	6539585	Score	219
Exons	3071..3162, 3460..3615		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	53162	Seq. ID	OJ990317_09.0421.C24
Gene No.	112077	Strand	
Start	4842	End	10395

Name	OJ990317_09.0421.C24.o2.tm	Method	TBLASTX:Maize
Start	4842	End	10395
GI	none	Score	83
Exons	4842..4937, 5665..5739, 5666..5749, 5666..5740, 5670..5744, 6067..6144, 6078..6137, 6097..6153, 6283..6336, 6285..6344, 6942..7091, 6942..7091, 6944..7096, 7241..7339, 7241..7333, 7242..7337, 7243..7341, 7689..7757, 7691..7804, 7691..7810, 7900..8034, 7900..8049, 8416..8532, 8419..8652, 8481..8540, 8492..8671, 10166..10324, 10180..10338, 10203..10346, 10203..10343, 10319..10393, 10326..10361, 10333..10395, 10333..10395		

Seq. No.	53163	Seq. ID	OJ990317_08.0421.C1
Gene No.	112078	Strand	-
Start	311	End	1200
Name	OJ990317_08.0421.C1.o1.gs	Method	GENSCAN
Start	311	End	1200
GI	none	Score	.53
Exons	311..409, 976..1200		

Seq. No.	53164	Seq. ID	OJ990317_08.0421.C5
Gene No.	112079	Strand	-
Start	65	End	790
Name	OJ990317_08.0421.C5.o1.gs	Method	GENSCAN
Start	65	End	738
GI	none	Score	.53
Exons	65..91, 507..599, 682..738		

Seq. No.	53164	Seq. ID	OJ990317_08.0421.C5
Gene No.	112079	Strand	-
Start	65	End	790
Name	OJ990317_08.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	507	End	790
GI	none	Score	65
Exons	507..599, 516..602, 679..789, 682..789, 692..790		

Seq. No.	53165	Seq. ID	OJ990317_08.0421.C8
Gene No.	112080	Strand	-
Start	360	End	523
Name	OJ990317_08.0421.C8.o1.gs	Method	GENSCAN
Start	360	End	523
GI	none	Score	.78
Exons	360..523		

Seq. No.	53166	Seq. ID	OJ990317_08.0421.C12
Gene No.	112081	Strand	+
Start	381	End	508
Name	OJ990317_08.0421.C12.o1.gs	Method	GENSCAN
Start	381	End	508
GI	none	Score	.91
Exons	381..508		

Seq. No.	53167	Seq. ID	OJ990317_08.0421.C13
Gene No.	112082	Strand	+
Start	920	End	1106
Name	OJ990317_08.0421.C13.o1.gp	Method	AAT/GAP
Start	920	End	1106

GI	4107129	Score	297
Exons	920..1106		
GI Descrip.	1330273/dbj|D85055|RICSINE11 2.0e-18 Rice retroposon p-SINE1-r31 gene		

Seq. No.	53168	Seq. ID	OJ990317_08.0421.C14
Gene No.	112083	Strand	+
Start	68	End	2133
Name	OJ990317_08.0421.C14.o1.gs	Method	GENSCAN
Start	68	End	2133
GI	none	Score	.94
Exons	68..134, 218..516, 1342..1395, 2065..2133		

Seq. No.	53169	Seq. ID	OJ990317_08.0421.C15
Gene No.	112084	Strand	+
Start	1	End	380
Name	OJ990317_08.0421.C15.o1.np	Method	AAT/NAP
Start	1	End	380
GI	6862956	Score	282
Exons	1..380		
GI Descrip.	(AC019018) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53169	Seq. ID	OJ990317_08.0421.C15
Gene No.	112085	Strand	-
Start	1199	End	4612
Name	OJ990317_08.0421.C15.o3.tm	Method	TBLASTX:Maize
Start	57	End	272
GI	none	Score	290
Exons	57..272, 59..271		

Seq. No.	53169	Seq. ID	OJ990317_08.0421.C15
Gene No.	112085	Strand	-
Start	1199	End	4612
Name	OJ990317_08.0421.C15.o2.np	Method	AAT/NAP
Start	1199	End	4612
GI	4335731	Score	1786
Exons	1199..3470, 3501..4217, 4251..4464, 4591..4612		
GI Descrip.	(AC006248) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	53169	Seq. ID	OJ990317_08.0421.C15
Gene No.	112085	Strand	-
Start	1199	End	4612
Name	OJ990317_08.0421.C15.o2.tm	Method	TBLASTX:Maize
Start	1241	End	1851
GI	none	Score	43
Exons	1241..1294, 1351..1404, 1353..1424, 1422..1652, 1468..1545, 1591..1647, 1673..1792, 1792..1851		

Seq. No.	53169	Seq. ID	OJ990317_08.0421.C15
Gene No.	112085	Strand	-
Start	1199	End	4612
Name	OJ990317_08.0421.C15.o4.ts	Method	TBLASTX:Soybean
Start	1329	End	1638
GI	none	Score	69
Exons	1329..1454, 1353..1454, 1434..1637, 1498..1638		

Seq. No.	53169	Seq. ID	OJ990317_08.0421.C15
Gene No.	112085	Strand	-
Start	1199	End	4612
Name	OJ990317_08.0421.C15.o3.tw	Method	TBLASTX:Wheat
Start	1353	End	1662
GI	none	Score	71
Exons	1353..1427, 1443..1661, 1468..1662		

Seq. No.	53169	Seq. ID	OJ990317_08.0421.C15
Gene No.	112085	Strand	-
Start	1199	End	4612
Name	OJ990317_08.0421.C15.o2.ts	Method	TBLASTX:Soybean
Start	1650	End	2081
GI	none	Score	82
Exons	1650..1787, 1658..1792, 1673..1789, 1795..1914, 1796..1918, 1911..2081, 1912..2070		

Seq. No.	53169	Seq. ID	OJ990317_08.0421.C15
Gene No.	112085	Strand	-
Start	1199	End	4612
Name	OJ990317_08.0421.C15.o4.tm	Method	TBLASTX:Maize
Start	2151	End	2555
GI	none	Score	76
Exons	2151..2555, 2248..2484		

Seq. No.	53169	Seq. ID	OJ990317_08.0421.C15
Gene No.	112085	Strand	-
Start	1199	End	4612
Name	OJ990317_08.0421.C15.o3.ts	Method	TBLASTX:Soybean
Start	2220	End	2686
GI	5509260	Score	81
Exons	2220..2579, 2443..2556, 2585..2686		
GI Descrip.	-		

Seq. No.	53169	Seq. ID	OJ990317_08.0421.C15
Gene No.	112085	Strand	-
Start	1199	End	4612
Name	OJ990317_08.0421.C15.o1.tw	Method	TBLASTX:Wheat
Start	2247	End	2683
GI	none	Score	53
Exons	2247..2558, 2248..2406, 2443..2574, 2615..2683		

Seq. No.	53169	Seq. ID	OJ990317_08.0421.C15
Gene No.	112085	Strand	-
Start	1199	End	4612
Name	OJ990317_08.0421.C15.o2.tc	Method	TBLASTX:Cress
Start	2346	End	2570
GI	none	Score	58
Exons	2346..2570, 2371..2538		

Seq. No.	53169	Seq. ID	OJ990317_08.0421.C15
Gene No.	112085	Strand	-
Start	1199	End	4612
Name	OJ990317_08.0421.C15.o1.ts	Method	TBLASTX:Soybean
Start	3010	End	3486
GI	none	Score	197
Exons	3010..3486, 3113..3484		

Seq. No.	53169	Seq. ID	OJ990317_08.0421.C15
Gene No.	112085	Strand	-
Start	1199	End	4612
Name	OJ990317_08.0421.C15.o1.tc	Method	TBLASTX:Cress
Start	3022	End	3471
GI	none	Score	109
Exons	3022..3453, 3028..3471		

Seq. No.	53169	Seq. ID	OJ990317_08.0421.C15
Gene No.	112085	Strand	-
Start	1199	End	4612
Name	OJ990317_08.0421.C15.o1.tm	Method	TBLASTX:Maize
Start	3025	End	3660
GI	none	Score	105
Exons	3025..3660, 3296..3523		

Seq. No.	53169	Seq. ID	OJ990317_08.0421.C15
Gene No.	112085	Strand	-
Start	1199	End	4612
Name	OJ990317_08.0421.C15.o2.tw	Method	TBLASTX:Wheat
Start	3148	End	3562
GI	none	Score	107
Exons	3148..3243, 3259..3561, 3260..3562		

Seq. No.	53170	Seq. ID	OJ990317_08.0421.C16
Gene No.	112086	Strand	-
Start	271	End	486
Name	OJ990317_08.0421.C16.o1.gs	Method	GENSCAN
Start	271	End	486
GI	none	Score	.98
Exons	271..486		

Seq. No.	53171	Seq. ID	OJ990317_08.0421.C17
Gene No.	112087	Strand	-
Start	1050	End	1848
Name	OJ990317_08.0421.C17.o1.gs	Method	GENSCAN
Start	1050	End	1848
GI	none	Score	.64
Exons	1050..1205, 1641..1848		

Seq. No.	53172	Seq. ID	OJ990317_08.0421.C18
Gene No.	112088	Strand	+
Start	509	End	753
Name	OJ990317_08.0421.C18.o1.gs	Method	GENSCAN
Start	509	End	753
GI	none	Score	.67
Exons	509..753		

Seq. No.	53173	Seq. ID	OJ990317_08.0421.C20
Gene No.	112089	Strand	+
Start	2294	End	4507
Name	OJ990317_08.0421.C20.o2.np	Method	AAT/NAP
Start	2294	End	3103
GI	7248394	Score	208
Exons	2294..2443, 3060..3103		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165)		

correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)

Seq. No.	53173	Seq. ID	OJ990317_08.0421.C20
Gene No.	112089	Strand	+
Start	2294	End	4507
Name	OJ990317_08.0421.C20.o3.np	Method	AAT/NAP
Start	2294	End	4507
GI	7248394	Score	210
Exons	2294..2443, 4452..4507		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	53173	Seq. ID	OJ990317_08.0421.C20
Gene No.	112090	Strand	-
Start	3330	End	3716
Name	OJ990317_08.0421.C20.o1.tm	Method	TBLASTX:Maize
Start	952	End	1329
GI	none	Score	157
Exons	952..1077, 969..1076, 1102..1167, 1156..1329		

Seq. No.	53173	Seq. ID	OJ990317_08.0421.C20
Gene No.	112090	Strand	-
Start	3330	End	3716
Name	OJ990317_08.0421.C20.o2.gs	Method	GENSCAN
Start	3330	End	3716
GI	none	Score	.67
Exons	3330..3716		

Seq. No.	53174	Seq. ID	OJ990317_08.0421.C21
Gene No.	112091	Strand	+
Start	45	End	297
Name	OJ990317_08.0421.C21.o1.gs	Method	GENSCAN
Start	45	End	297
GI	none	Score	.62
Exons	45..297		

Seq. No.	53174	Seq. ID	OJ990317_08.0421.C21
Gene No.	112092	Strand	-
Start	421	End	1312
Name	OJ990317_08.0421.C21.o1.tm	Method	TBLASTX:Maize
Start	421	End	916
GI	none	Score	114
Exons	421..573, 423..545, 436..600, 626..916	461..583, 616..915, 624..914,	

Seq. No.	53174	Seq. ID	OJ990317_08.0421.C21
Gene No.	112092	Strand	-
Start	421	End	1312
Name	OJ990317_08.0421.C21.o2.gs	Method	GENSCAN
Start	421	End	1209
GI	none	Score	.61

Exons	421..1079, 1149..1209		
Seq. No.	53174	Seq. ID	OJ990317_08.0421.C21
Gene No.	112092	Strand	-
Start	421	End	1312
Name	OJ990317_08.0421.C21.o2.tm	Method	TBLASTX:Maize
Start	953	End	1312
GI	none	Score	221
Exons	953..1210, 961..1224, 1231..1266, 1292..1312		
Seq. No.	53175	Seq. ID	OJ990317_08.0421.C22
Gene No.	112093	Strand	+
Start	1	End	1429
Name	OJ990317_08.0421.C22.o1.np	Method	AAT/NAP
Start	1	End	1429
GI	7340909	Score	147
Exons	1..22, 88..119, 1064..1429		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		
Seq. No.	53176	Seq. ID	OJ990317_08.0421.C23
Gene No.	112094	Strand	+
Start	1124	End	1508
Name	OJ990317_08.0421.C23.o1.gs	Method	GENSCAN
Start	1124	End	1508
GI	none	Score	.86
Exons	1124..1201, 1502..1508		
Seq. No.	53176	Seq. ID	OJ990317_08.0421.C23
Gene No.	112095	Strand	-
Start	541	End	991
Name	OJ990317_08.0421.C23.o1.np	Method	AAT/NAP
Start	541	End	991
GI	6539570	Score	155
Exons	541..607, 788..991		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		
Seq. No.	53176	Seq. ID	OJ990317_08.0421.C23
Gene No.	112096	Strand	-
Start	1118	End	1202
Name	OJ990317_08.0421.C23.o2.np	Method	AAT/NAP
Start	1118	End	1202
GI	6630699	Score	73
Exons	1118..1202		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		
Seq. No.	53177	Seq. ID	OJ990317_08.0421.C24
Gene No.	112097	Strand	+
Start	19	End	628
Name	OJ990317_08.0421.C24.o1.gs	Method	GENSCAN
Start	19	End	628
GI	none	Score	.77
Exons	19..141, 176..628		
Seq. No.	53178	Seq. ID	OJ990317_08.0421.C25
Gene No.	112098	Strand	+

Start	349	End	2401
Name	OJ990317_08.0421.C25.o1.gs	Method	GENSCAN
Start	349	End	978
GI	none	Score	.93
Exons	349..978		

Seq. No.	53178	Seq. ID	OJ990317_08.0421.C25
Gene No.	112098	Strand	+
Start	349	End	2401
Name	OJ990317_08.0421.C25.o1.np	Method	AAT/NAP
Start	400	End	2401
GI	1346109	Score	132
Exons	400..587, 2339..2401		
GI Descrip.	GUANINE NUCLEOTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN (GPB-LR) (RWD) gi|540535|dbj|BAA07404| (D38231) RWD [Oryza sativa]		

Seq. No.	53178	Seq. ID	OJ990317_08.0421.C25
Gene No.	112099	Strand	-
Start	144	End	2762
Name	OJ990317_08.0421.C25.o2.np	Method	AAT/NAP
Start	144	End	2762
GI	7340909	Score	179
Exons	144..379, 909..1157, 2690..2762		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	53178	Seq. ID	OJ990317_08.0421.C25
Gene No.	112100	Strand	-
Start	3510	End	4230
Name	OJ990317_08.0421.C25.o1.gp	Method	AAT/GAP
Start	3274	End	3548
GI	3760533	Score	480
Exons	3274..3548		

Seq. No.	53178	Seq. ID	OJ990317_08.0421.C25
Gene No.	112100	Strand	-
Start	3510	End	4230
Name	OJ990317_08.0421.C25.o2.gs	Method	GENSCAN
Start	3510	End	4223
GI	none	Score	.93
Exons	3510..3713, 3795..4029, 4153..4223		

Seq. No.	53178	Seq. ID	OJ990317_08.0421.C25
Gene No.	112100	Strand	-
Start	3510	End	4230
Name	OJ990317_08.0421.C25.o1.tm	Method	TBLASTX:Maize
Start	3630	End	4230
GI	none	Score	41
Exons	3630..3722, 3782..3985, 3793..3906, 3795..4028, 3795..4046, 3796..4032, 4141..4230, 4153..4224		

Seq. No.	53178	Seq. ID	OJ990317_08.0421.C25
Gene No.	112100	Strand	-
Start	3510	End	4230
Name	OJ990317_08.0421.C25.o2.gp	Method	AAT/GAP
Start	3638	End	4225
GI	none	Score	821

Exons	3638..4029, 4153..4225		
Seq. No.	53179	Seq. ID	OJ990317_08.0421.C26
Gene No.	112101	Strand	+
Start	838	End	1099
Name	OJ990317_08.0421.C26.o2.gp	Method	AAT/GAP
Start	838	End	1099
GI	none	Score	512
Exons	838..1099		
Seq. No.	53179	Seq. ID	OJ990317_08.0421.C26
Gene No.	112102	Strand	-
Start	479	End	653
Name	OJ990317_08.0421.C26.o1.gp	Method	AAT/GAP
Start	479	End	581
GI	none	Score	135
Exons	479..581		
Seq. No.	53179	Seq. ID	OJ990317_08.0421.C26
Gene No.	112102	Strand	-
Start	479	End	653
Name	OJ990317_08.0421.C26.o1.gs	Method	GENSCAN
Start	480	End	653
GI	none	Score	.62
Exons	480..653		
Seq. No.	53179	Seq. ID	OJ990317_08.0421.C26
Gene No.	112103	Strand	-
Start	2275	End	2758
Name	OJ990317_08.0421.C26.o2.gs	Method	GENSCAN
Start	2275	End	2758
GI	none	Score	.71
Exons	2275..2366, 2398..2526, 2710..2758		
Seq. No.	53180	Seq. ID	OJ990317_08.0421.C28
Gene No.	112104	Strand	+
Start	811	End	1348
Name	OJ990317_08.0421.C28.o1.gp	Method	AAT/GAP
Start	811	End	1348
GI	none	Score	1022
Exons	811..1348		
Seq. No.	53180	Seq. ID	OJ990317_08.0421.C28
Gene No.	112105	Strand	+
Start	1641	End	2304
Name	OJ990317_08.0421.C28.o2.gp	Method	AAT/GAP
Start	1641	End	2304
GI	uC-osrocyp010b12b1	Score	831
Exons	1641..1825, 2017..2304		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 3.0e-94 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		
Seq. No.	53181	Seq. ID	OJ990317_08.0421.C29
Gene No.	112106	Strand	+
Start	1232	End	3578
Name	OJ990317_08.0421.C29.o1.np	Method	AAT/NAP
Start	1232	End	3578

GI	3913193	Score	590
Exons	1232..1308, 2673..2786, 3224..3578		
GI Descrip.	CINNAMYL-ALCOHOL DEHYDROGENASE 1 (CAD) gi|556422 (L36823) cinnamyl-alcohol dehydrogenase [Stylosanthes humilis]		

Seq. No.	53181	Seq. ID	OJ990317_08.0421.C29
Gene No.	112106	Strand	+
Start	1232	End	3578
Name	OJ990317_08.0421.C29.o2.gs	Method	GENSCAN
Start	3206	End	3569
GI	none	Score	.55
Exons	3206..3290, 3367..3569		

Seq. No.	53181	Seq. ID	OJ990317_08.0421.C29
Gene No.	112107	Strand	-
Start	136	End	1299
Name	OJ990317_08.0421.C29.o1.gs	Method	GENSCAN
Start	136	End	1299
GI	none	Score	.89
Exons	136..298, 366..394, 527..606, 1161..1299		

Seq. No.	53181	Seq. ID	OJ990317_08.0421.C29
Gene No.	112108	Strand	
Start	2664	End	3578
Name	OJ990317_08.0421.C29.o1.tm	Method	TBLASTX:Maize
Start	2664	End	3578
GI	none	Score	208
Exons	2664..2786, 2668..2787, 3225..3578, 3225..3296, 3227..3577		

Seq. No.	53181	Seq. ID	OJ990317_08.0421.C29
Gene No.	112108	Strand	
Start	2664	End	3578
Name	OJ990317_08.0421.C29.o1.tc	Method	TBLASTX:Cress
Start	2670	End	3578
GI	none	Score	153
Exons	2670..2786, 2671..2787, 2680..2790, 3224..3577, 3225..3578		

Seq. No.	53181	Seq. ID	OJ990317_08.0421.C29
Gene No.	112108	Strand	
Start	2664	End	3578
Name	OJ990317_08.0421.C29.o1.ts	Method	TBLASTX:Soybean
Start	2670	End	3578
GI	none	Score	158
Exons	2670..2786, 2671..2787, 3224..3577, 3225..3578		

Seq. No.	53181	Seq. ID	OJ990317_08.0421.C29
Gene No.	112108	Strand	
Start	2664	End	3578
Name	OJ990317_08.0421.C29.o1.tw	Method	TBLASTX:Wheat
Start	2691	End	3569
GI	none	Score	69
Exons	2691..2774, 2692..2787, 2708..2773, 2712..2786, 3224..3568, 3225..3569		

Seq. No.	53182	Seq. ID	OJ990317_08.0421.C30
Gene No.	112109	Strand	+
Start	1	End	394

Name	OJ990317_08.0421.C30.o1.np	Method	AAT/NAP
Start	1	End	388
GI	4097522	Score	218
Exons	1..82, 186..388		
GI Descrip.	(U63534) cinnamyl alcohol dehydrogenase [Fragaria x ananassa]		

Seq. No.	53182	Seq. ID	OJ990317_08.0421.C30
Gene No.	112109	Strand	+
Start	1	End	394
Name	OJ990317_08.0421.C30.o1.tw	Method	TBLASTX:Wheat
Start	178	End	385
GI	none	Score	291
Exons	178..375, 179..385		

Seq. No.	53182	Seq. ID	OJ990317_08.0421.C30
Gene No.	112109	Strand	+
Start	1	End	394
Name	OJ990317_08.0421.C30.o1.tc	Method	TBLASTX:Cress
Start	179	End	379
GI	none	Score	234
Exons	179..379, 193..372		

Seq. No.	53182	Seq. ID	OJ990317_08.0421.C30
Gene No.	112109	Strand	+
Start	1	End	394
Name	OJ990317_08.0421.C30.o1.tm	Method	TBLASTX:Maize
Start	179	End	385
GI	none	Score	290
Exons	179..385, 187..378		

Seq. No.	53182	Seq. ID	OJ990317_08.0421.C30
Gene No.	112109	Strand	+
Start	1	End	394
Name	OJ990317_08.0421.C30.o1.ts	Method	TBLASTX:Soybean
Start	191	End	379
GI	none	Score	236
Exons	191..379, 193..372		

Seq. No.	53182	Seq. ID	OJ990317_08.0421.C30
Gene No.	112109	Strand	+
Start	1	End	394
Name	OJ990317_08.0421.C30.o1.gs	Method	GENSCAN
Start	239	End	394
GI	none	Score	.75
Exons	239..394		

Seq. No.	53182	Seq. ID	OJ990317_08.0421.C30
Gene No.	112110	Strand	
Start	1571	End	1833
Name	OJ990317_08.0421.C30.o2.tm	Method	TBLASTX:Maize
Start	1571	End	1833
GI	none	Score	83
Exons	1571..1648, 1655..1687, 1691..1741, 1737..1832, 1741..1833		

Seq. No.	53183	Seq. ID	OJ990317_08.0421.C31
Gene No.	112111	Strand	+
Start	251	End	389

Name	OJ990317_08.0421.C31.o1.gp	Method	AAT/GAP
Start	251	End	389
GI	LIB3432-008-P1-K1-F11	Score	129
Exons	251..276, 307..389		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-151 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	53183	Seq. ID	OJ990317_08.0421.C31
Gene No.	112112	Strand	-
Start	22	End	58
Name	OJ990317_08.0421.C31.o1.gs	Method	GENSCAN
Start	22	End	58
GI	none	Score	.91
Exons	22..58		

Seq. No.	53184	Seq. ID	OJ990317_08.0421.C35
Gene No.	112113	Strand	-
Start	158	End	749
Name	OJ990317_08.0421.C35.o1.gs	Method	GENSCAN
Start	158	End	728
GI	none	Score	1
Exons	158..297, 470..728		

Seq. No.	53184	Seq. ID	OJ990317_08.0421.C35
Gene No.	112113	Strand	-
Start	158	End	749
Name	OJ990317_08.0421.C35.o1.np	Method	AAT/NAP
Start	164	End	749
GI	4097522	Score	503
Exons	164..366, 470..749		
GI Descrip.	(U63534) cinnamyl alcohol dehydrogenase [Fragaria x ananassa]		

Seq. No.	53184	Seq. ID	OJ990317_08.0421.C35
Gene No.	112113	Strand	-
Start	158	End	749
Name	OJ990317_08.0421.C35.o1.tm	Method	TBLASTX:Maize
Start	167	End	749
GI	none	Score	248
Exons	167..373, 174..365, 471..671, 474..749, 478..747		

Seq. No.	53184	Seq. ID	OJ990317_08.0421.C35
Gene No.	112113	Strand	-
Start	158	End	749
Name	OJ990317_08.0421.C35.o1.tw	Method	TBLASTX:Wheat
Start	167	End	749
GI	none	Score	271
Exons	167..373, 177..374, 471..749, 472..747		

Seq. No.	53184	Seq. ID	OJ990317_08.0421.C35
Gene No.	112113	Strand	-
Start	158	End	749
Name	OJ990317_08.0421.C35.o1.tc	Method	TBLASTX:Cress
Start	173	End	749
GI	none	Score	162
Exons	173..373, 180..359, 474..749, 478..747		

Seq. No.	53184	Seq. ID	OJ990317_08.0421.C35

Gene No.	112113	Strand	-
Start	158	End	749
Name	OJ990317_08.0421.C35.o1.ts	Method	TBLASTX:Soybean
Start	173	End	749
GI	none	Score	175
Exons	173..400, 180..353, 492..749, 496..747		

Seq. No.	53185	Seq. ID	OJ990317_08.0421.C37
Gene No.	112114	Strand	-
Start	20	End	903
Name	OJ990317_08.0421.C37.o1.gs	Method	GENSCAN
Start	20	End	903
GI	none	Score	.97
Exons	20..796, 824..903		

Seq. No.	53186	Seq. ID	OJ990317_08.0421.C41
Gene No.	112115	Strand	+
Start	511	End	625
Name	OJ990317_08.0421.C41.o1.gs	Method	GENSCAN
Start	511	End	625
GI	none	Score	.59
Exons	511..625		

Seq. No.	53187	Seq. ID	OJ990317_08.0421.C42
Gene No.	112116	Strand	+
Start	1	End	4348
Name	OJ990317_08.0421.C42.o1.np	Method	AAT/NAP
Start	1	End	4348
GI	6815052	Score	1711
Exons	1..34, 317..438, 736..835, 1696..1788, 2570..2714, 2763..3497, 3579..3653, 4230..4348		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	53187	Seq. ID	OJ990317_08.0421.C42
Gene No.	112116	Strand	+
Start	1	End	4348
Name	OJ990317_08.0421.C42.o1.tw	Method	TBLASTX:Wheat
Start	2015	End	2509
GI	none	Score	90
Exons	2015..2194, 2046..2198, 2219..2509		

Seq. No.	53187	Seq. ID	OJ990317_08.0421.C42
Gene No.	112116	Strand	+
Start	1	End	4348
Name	OJ990317_08.0421.C42.o1.ts	Method	TBLASTX:Soybean
Start	2033	End	2407
GI	none	Score	107
Exons	2033..2218, 2213..2407		

Seq. No.	53188	Seq. ID	OJ990317_08.0421.C43
Gene No.	112117	Strand	+
Start	1	End	2791
Name	OJ990317_08.0421.C43.o1.np	Method	AAT/NAP
Start	1	End	2791
GI	6815052	Score	469
Exons	1..112, 1761..1940, 2022..2096, 2673..2791		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	53188	Seq. ID	OJ990317_08.0421.C43
Gene No.	112118	Strand	-
Start	1014	End	5017
Name	OJ990317_08.0421.C43.o1.gs	Method	GENSCAN
Start	1014	End	1556
GI	none	Score	.79
Exons	1014..1363, 1448..1556		

Seq. No.	53188	Seq. ID	OJ990317_08.0421.C43
Gene No.	112118	Strand	-
Start	1014	End	5017
Name	OJ990317_08.0421.C43.o2.np	Method	AAT/NAP
Start	1436	End	5017
GI	5042463	Score	169
Exons	1436..1708, 3844..3948, 3994..4135, 4796..5017		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	53188	Seq. ID	OJ990317_08.0421.C43
Gene No.	112119	Strand	-
Start	8085	End	9160
Name	OJ990317_08.0421.C43.o4.gs	Method	GENSCAN
Start	8085	End	9160
GI	none	Score	.55
Exons	8085..8207, 9029..9160		

Seq. No.	53189	Seq. ID	OJ990317_08.0421.C44
Gene No.	112120	Strand	-
Start	1636	End	2019
Name	OJ990317_08.0421.C44.o1.np	Method	AAT/NAP
Start	1636	End	2019
GI	4544372	Score	124
Exons	1636..2019		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	53189	Seq. ID	OJ990317_08.0421.C44
Gene No.	112120	Strand	-
Start	1636	End	2019
Name	OJ990317_08.0421.C44.o1.tw	Method	TBLASTX:Wheat
Start	1651	End	1947
GI	none	Score	88
Exons	1651..1719, 1652..1720, 1718..1939, 1724..1891, 1725..1940, 1726..1947		

Seq. No.	53190	Seq. ID	OJ990317_08.0421.C45
Gene No.	112121	Strand	-
Start	1	End	6009
Name	OJ990317_08.0421.C45.o1.np	Method	AAT/NAP
Start	1	End	6009
GI	7489805	Score	1346
Exons	1..68, 513..1443, 1479..1655, 3239..3554, 3588..5029, 5369..5706, 5950..6009		
GI Descrip.	polyprotein - maize retrotransposon Cinful-1 gi|4206306|gb|AAD11615.1| (AF049110) prpol [Zea mays]		

Seq. No.	53190	Seq. ID	OJ990317_08.0421.C45

Gene No.	112121	Strand	-
Start	1	End	6009
Name	OJ990317_08.0421.C45.o1.gs	Method	GENSCAN
Start	427	End	1098
GI	none	Score	.93
Exons	427..1098		

Seq. No.	53190	Seq. ID	OJ990317_08.0421.C45
Gene No.	112121	Strand	-
Start	1	End	6009
Name	OJ990317_08.0421.C45.o3.tw	Method	TBLASTX:Wheat
Start	616	End	981
GI	none	Score	177
Exons	616..981		

Seq. No.	53190	Seq. ID	OJ990317_08.0421.C45
Gene No.	112121	Strand	-
Start	1	End	6009
Name	OJ990317_08.0421.C45.o2.ts	Method	TBLASTX:Soybean
Start	739	End	1108
GI	none	Score	83
Exons	739..1011, 758..1012, 919..1014, 1010..1108		

Seq. No.	53190	Seq. ID	OJ990317_08.0421.C45
Gene No.	112121	Strand	-
Start	1	End	6009
Name	OJ990317_08.0421.C45.o2.gs	Method	GENSCAN
Start	3714	End	5783
GI	none	Score	.67
Exons	3714..5287, 5316..5783		

Seq. No.	53190	Seq. ID	OJ990317_08.0421.C45
Gene No.	112121	Strand	-
Start	1	End	6009
Name	OJ990317_08.0421.C45.o1.ts	Method	TBLASTX:Soybean
Start	3801	End	4337
GI	none	Score	65
Exons	3801..3878, 3858..4337, 3874..4005, 4162..4281		

Seq. No.	53190	Seq. ID	OJ990317_08.0421.C45
Gene No.	112121	Strand	-
Start	1	End	6009
Name	OJ990317_08.0421.C45.o1.tw	Method	TBLASTX:Wheat
Start	3963	End	4379
GI	none	Score	94
Exons	3963..4379, 3964..4110, 4153..4332		

Seq. No.	53190	Seq. ID	OJ990317_08.0421.C45
Gene No.	112121	Strand	-
Start	1	End	6009
Name	OJ990317_08.0421.C45.o1.tm	Method	TBLASTX:Maize
Start	4056	End	4476
GI	none	Score	126
Exons	4056..4472, 4162..4476		

Seq. No.	53190	Seq. ID	OJ990317_08.0421.C45
Gene No.	112121	Strand	-

Start	1	End	6009
Name	OJ990317_08.0421.C45.o2.tm	Method	TBLASTX:Maize
Start	4477	End	4782
GI	none	Score	53
Exons	4477..4527, 4479..4781, 4597..4782		

Seq. No.	53190	Seq. ID	OJ990317_08.0421.C45
Gene No.	112121	Strand	-
Start	1	End	6009
Name	OJ990317_08.0421.C45.o2.tw	Method	TBLASTX:Wheat
Start	4498	End	4944
GI	none	Score	187
Exons	4498..4944, 4509..4943		

Seq. No.	53190	Seq. ID	OJ990317_08.0421.C45
Gene No.	112121	Strand	-
Start	1	End	6009
Name	OJ990317_08.0421.C45.o3.ts	Method	TBLASTX:Soybean
Start	4548	End	4913
GI	none	Score	126
Exons	4548..4691, 4695..4913		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o1.gs	Method	GENSCAN
Start	920	End	6621
GI	none	Score	.45
Exons	920..1050, 2341..2455, 2518..2669, 2698..3385, 3772..4930, 5032..5572, 5793..6621		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o4.tw	Method	TBLASTX:Wheat
Start	2807	End	3203
GI	none	Score	113
Exons	2807..2941, 2981..3202, 2992..3183, 3021..3203		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o1.np	Method	AAT/NAP
Start	2912	End	6711
GI	6630696	Score	5945
Exons	2912..6711		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o4.tm	Method	TBLASTX:Maize
Start	2978	End	3259
GI	none	Score	279
Exons	2978..3259, 3001..3183, 3048..3197, 3068..3259		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o1.tm	Method	TBLASTX:Maize
Start	3768	End	4152
GI	none	Score	264
Exons	3768..4076, 3771..4055, 3772..4092, 3772..4071, 4090..4152		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o5.ts	Method	TBLASTX:Soybean
Start	4102	End	4482
GI	none	Score	88
Exons	4102..4251, 4234..4482		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o3.tm	Method	TBLASTX:Maize
Start	4240	End	4704
GI	none	Score	312
Exons	4240..4704, 4521..4631		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o5.tw	Method	TBLASTX:Wheat
Start	4347	End	4547
GI	none	Score	276
Exons	4347..4547, 4348..4545, 4350..4547		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o2.ts	Method	TBLASTX:Soybean
Start	4492	End	4890
GI	none	Score	204
Exons	4492..4713, 4494..4712, 4717..4890		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o1.tw	Method	TBLASTX:Wheat
Start	4548	End	5294
GI	none	Score	622
Exons	4548..5042, 4549..5043, 5046..5294, 5059..5220, 5111..5290		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o1.ts	Method	TBLASTX:Soybean
Start	5214	End	5667
GI	5509260	Score	335
Exons	5214..5660, 5318..5470, 5488..5667		
GI Descrip.	-		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o1.tc	Method	TBLASTX:Cress
Start	5307	End	5567
GI	none	Score	232
Exons	5307..5567		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o5.tm	Method	TBLASTX:Maize
Start	5355	End	5692
GI	none	Score	259
Exons	5355..5660, 5362..5427, 5363..5479, 5502..5564, 5506..5658, 5600..5692		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o3.tw	Method	TBLASTX:Wheat
Start	5364	End	5892
GI	none	Score	250
Exons	5364..5660, 5366..5527, 5716..5892, 5733..5861		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o3.ts	Method	TBLASTX:Soybean
Start	5745	End	6098
GI	none	Score	152
Exons	5745..5873, 5746..5904, 5905..6096, 5907..6098		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o2.tm	Method	TBLASTX:Maize
Start	5896	End	6243
GI	none	Score	325
Exons	5896..6243, 5902..6240, 5910..6242		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o2.tw	Method	TBLASTX:Wheat
Start	6100	End	6575
GI	none	Score	107
Exons	6100..6174, 6101..6169, 6105..6188, 6105..6173, 6189..6575, 6190..6573		

Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112122	Strand	+
Start	920	End	6711
Name	OJ990317_08.0421.C46.o4.ts	Method	TBLASTX:Soybean
Start	6106	End	6447
GI	none	Score	84

Exons	6106..6219, 6238..6447		
Seq. No.	53191	Seq. ID	OJ990317_08.0421.C46
Gene No.	112123	Strand	
Start	6850	End	7202
Name	OJ990317_08.0421.C46.o6.tw	Method	TBLASTX:Wheat
Start	6850	End	7202
GI	none	Score	68
Exons	6850..6921, 6851..6922, 6900..6992, 6923..6994, 6925..7005, 6931..6993, 6993..7034, 6994..7071, 6996..7064, 7098..7157, 7098..7202		
Seq. No.	53192	Seq. ID	OJ990317_08.0421.C51
Gene No.	112124	Strand	+
Start	215	End	339
Name	OJ990317_08.0421.C51.o1.gs	Method	GENSCAN
Start	215	End	339
GI	none	Score	.6
Exons	215..339		
Seq. No.	53193	Seq. ID	OJ990317_08.0421.C53
Gene No.	112125	Strand	+
Start	12	End	349
Name	OJ990317_08.0421.C53.o1.gp	Method	AAT/GAP
Start	12	End	349
GI	5038860	Score	642
Exons	12..349		
Seq. No.	53193	Seq. ID	OJ990317_08.0421.C53
Gene No.	112125	Strand	+
Start	12	End	349
Name	OJ990317_08.0421.C53.o1.gs	Method	GENSCAN
Start	104	End	319
GI	none	Score	.97
Exons	104..319		
Seq. No.	53194	Seq. ID	OJ990317_08.0421.C54
Gene No.	112126	Strand	+
Start	191	End	319
Name	OJ990317_08.0421.C54.o1.gs	Method	GENSCAN
Start	191	End	319
GI	none	Score	.68
Exons	191..319		
Seq. No.	53195	Seq. ID	OJ990317_08.0421.C55
Gene No.	112127	Strand	-
Start	695	End	770
Name	OJ990317_08.0421.C55.o1.np	Method	AAT/NAP
Start	695	End	770
GI	1351856	Score	39
Exons	695..770		
GI Descrip.	ACONITATE HYDRATASE, CYTOPLASMIC (CITRATE HYDRO-LYASE) (ACONITASE) gi|868003|dbj|BAA06108| (D29629) aconitase [Cucurbita sp.]		
Seq. No.	53196	Seq. ID	OJ990317_08.0421.C58
Gene No.	112128	Strand	+

Start	1	End	720
Name	OJ990317_08.0421.C58.o1.np	Method	AAT/NAP
Start	1	End	720
GI	7487694	Score	131
Exons	1..206, 543..720		
GI Descrip.	hypothetical protein T5I7.2 - Arabidopsis thaliana gi|2642154|gb|AAB87121.1| (AC003000) unknown protein [Arabidopsis thaliana] gi|3790595|gb|AAC69860.1| (AF079186) RING-H2 finger protein RHC2a [Arabidopsis thaliana]		

Seq. No.	53196	Seq. ID	OJ990317_08.0421.C58
Gene No.	112128	Strand	+
Start	1	End	720
Name	OJ990317_08.0421.C58.o1.ts	Method	TBLASTX:Soybean
Start	20	End	212
GI	none	Score	190
Exons	20..211, 21..212		

Seq. No.	53196	Seq. ID	OJ990317_08.0421.C58
Gene No.	112128	Strand	+
Start	1	End	720
Name	OJ990317_08.0421.C58.o1.gs	Method	GENSCAN
Start	87	End	661
GI	none	Score	.62
Exons	87..261, 570..661		

Seq. No.	53197	Seq. ID	OJ990317_08.0421.C59
Gene No.	112129	Strand	+
Start	1	End	448
Name	OJ990317_08.0421.C59.o1.gp	Method	AAT/GAP
Start	1	End	448
GI	2428843	Score	807
Exons	1..448		

Seq. No.	53198	Seq. ID	OJ990317_08.0421.C60
Gene No.	112130	Strand	+
Start	641	End	752
Name	OJ990317_08.0421.C60.o1.gs	Method	GENSCAN
Start	641	End	752
GI	none	Score	.65
Exons	641..752		

Seq. No.	53198	Seq. ID	OJ990317_08.0421.C60
Gene No.	112131	Strand	-
Start	494	End	761
Name	OJ990317_08.0421.C60.o1.gp	Method	AAT/GAP
Start	494	End	761
GI	701489	Score	487
Exons	494..761		

Seq. No.	53199	Seq. ID	OJ990317_08.0421.C62
Gene No.	112132	Strand	+
Start	466	End	615
Name	OJ990317_08.0421.C62.o1.gs	Method	GENSCAN
Start	466	End	615
GI	none	Score	.68
Exons	466..615		

Seq. No.	53200	Seq. ID	OJ990317_08.0421.C65
Gene No.	112133	Strand	-
Start	163	End	730
Name	OJ990317_08.0421.C65.o1.gs	Method	GENSCAN
Start	163	End	594
GI	none	Score	.85
Exons	163..594		

Seq. No.	53200	Seq. ID	OJ990317_08.0421.C65
Gene No.	112133	Strand	-
Start	163	End	730
Name	OJ990317_08.0421.C65.o1.np	Method	AAT/NAP
Start	166	End	730
GI	5091610	Score	659
Exons	166..730		
GI Descrip.	(AC007858) 10A19I.15 [Oryza sativa]		

Seq. No.	53200	Seq. ID	OJ990317_08.0421.C65
Gene No.	112133	Strand	-
Start	163	End	730
Name	OJ990317_08.0421.C65.o1.tm	Method	TBLASTX:Maize
Start	172	End	438
GI	none	Score	93
Exons	172..333, 173..316, 178..333,	314..436, 331..438	

Seq. No.	53201	Seq. ID	OJ990317_08.0421.C68
Gene No.	112134	Strand	-
Start	1	End	764
Name	OJ990317_08.0421.C68.o1.np	Method	AAT/NAP
Start	1	End	764
GI	7487976	Score	282
Exons	1..34, 247..764		
GI Descrip.	NPK1-related protein kinase homolog T26B15.7 - Arabidopsis thaliana gi|3298539|gb|AAC25933.1| (AC004681) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	53201	Seq. ID	OJ990317_08.0421.C68
Gene No.	112134	Strand	-
Start	1	End	764
Name	OJ990317_08.0421.C68.o1.gs	Method	GENSCAN
Start	101	End	736
GI	none	Score	.57
Exons	101..736		

Seq. No.	53201	Seq. ID	OJ990317_08.0421.C68
Gene No.	112134	Strand	-
Start	1	End	764
Name	OJ990317_08.0421.C68.o1.ts	Method	TBLASTX:Soybean
Start	383	End	703
GI	none	Score	73
Exons	383..568, 417..575, 551..649,	668..703	

Seq. No.	53201	Seq. ID	OJ990317_08.0421.C68
Gene No.	112134	Strand	-
Start	1	End	764
Name	OJ990317_08.0421.C68.o1.tc	Method	TBLASTX:Cress

Start	413	End	703
GI	none	Score	143
Exons	413..703, 417..647		

Seq. No.	53201	Seq. ID	OJ990317_08.0421.C68
Gene No.	112134	Strand	-
Start	1	End	764
Name	OJ990317_08.0421.C68.o1.tm	Method	TBLASTX:Maize
Start	484	End	764
GI	none	Score	99
Exons	484..603, 485..583, 486..584, 594..731, 704..760, 729..764,	561..707, 570..626, 584..709, 730..762	

Seq. No.	53202	Seq. ID	OJ990317_08.0421.C72
Gene No.	112135	Strand	+
Start	58	End	590
Name	OJ990317_08.0421.C72.o1.gs	Method	GENSCAN
Start	58	End	590
GI	none	Score	.7
Exons	58..104, 485..590		

Seq. No.	53203	Seq. ID	OJ990317_08.0421.C74
Gene No.	112136	Strand	-
Start	1	End	2889
Name	OJ990317_08.0421.C74.o1.np	Method	AAT/NAP
Start	1	End	2348
GI	6498436	Score	391
Exons	1..24, 1374..1498, 1595..2101, 2150..2348		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	53203	Seq. ID	OJ990317_08.0421.C74
Gene No.	112136	Strand	-
Start	1	End	2889
Name	OJ990317_08.0421.C74.o1.gs	Method	GENSCAN
Start	164	End	2810
GI	none	Score	.64
Exons	164..291, 686..1149, 1374..2810		

Seq. No.	53203	Seq. ID	OJ990317_08.0421.C74
Gene No.	112136	Strand	-
Start	1	End	2889
Name	OJ990317_08.0421.C74.o2.np	Method	AAT/NAP
Start	2480	End	2889
GI	6705984	Score	351
Exons	2480..2889		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	53203	Seq. ID	OJ990317_08.0421.C74
Gene No.	112136	Strand	-
Start	1	End	2889
Name	OJ990317_08.0421.C74.o1.tm	Method	TBLASTX:Maize
Start	2484	End	2718
GI	none	Score	105
Exons	2484..2717, 2490..2690, 2584..2718		

Seq. No.	53203	Seq. ID	OJ990317_08.0421.C74
Gene No.	112136	Strand	-

Start	1	End	2889
Name	OJ990317_08.0421.C74.o1.ts	Method	TBLASTX:Soybean
Start	2487	End	2849
GI	none	Score	78
Exons	2487..2645, 2637..2849, 2637..2849		

Seq. No.	53203	Seq. ID	OJ990317_08.0421.C74
Gene No.	112136	Strand	-
Start	1	End	2889
Name	OJ990317_08.0421.C74.o1.tw	Method	TBLASTX:Wheat
Start	2494	End	2847
GI	none	Score	95
Exons	2494..2658, 2499..2678, 2517..2669, 2597..2683, 2682..2840, 2683..2796, 2688..2834, 2734..2847		

Seq. No.	53204	Seq. ID	OJ990317_08.0421.C75
Gene No.	112137	Strand	-
Start	1	End	5262
Name	OJ990317_08.0421.C75.o1.np	Method	AAT/NAP
Start	1	End	2682
GI	6705984	Score	213
Exons	1..306, 2658..2682		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	53204	Seq. ID	OJ990317_08.0421.C75
Gene No.	112137	Strand	-
Start	1	End	5262
Name	OJ990317_08.0421.C75.o1.tw	Method	TBLASTX:Wheat
Start	60	End	284
GI	none	Score	71
Exons	60..284, 60..272		

Seq. No.	53204	Seq. ID	OJ990317_08.0421.C75
Gene No.	112137	Strand	-
Start	1	End	5262
Name	OJ990317_08.0421.C75.o1.gs	Method	GENSCAN
Start	158	End	5037
GI	none	Score	.47
Exons	158..364, 488..577, 1755..1958, 2243..2447, 2546..2580, 3031..3109, 4729..5037		

Seq. No.	53204	Seq. ID	OJ990317_08.0421.C75
Gene No.	112137	Strand	-
Start	1	End	5262
Name	OJ990317_08.0421.C75.o2.np	Method	AAT/NAP
Start	3732	End	5262
GI	2129709	Score	60
Exons	3732..3942, 5232..5262		
GI Descrip.	reverse transcriptase - Arabidopsis thaliana retrotransposon Tal1-1 gi|976278 (L47193) reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	53205	Seq. ID	OJ990317_08.0421.C80
Gene No.	112138	Strand	+
Start	1191	End	1533
Name	OJ990317_08.0421.C80.o1.np	Method	AAT/NAP
Start	1191	End	1533

GI	6815053	Score	54
Exons	1191..1533		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		

Seq. No.	53205	Seq. ID	OJ990317_08.0421.C80
Gene No.	112139	Strand	+
Start	2418	End	2495
Name	OJ990317_08.0421.C80.o2.np	Method	AAT/NAP
Start	2418	End	2495
GI	6630699	Score	93
Exons	2418..2495		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	53205	Seq. ID	OJ990317_08.0421.C80
Gene No.	112140	Strand	+
Start	2493	End	6036
Name	OJ990317_08.0421.C80.o1.gp	Method	AAT/GAP
Start	2493	End	2739
GI	286550	Score	183
Exons	2493..2514, 2632..2739		
GI Descrip.	5734616/dbj|AP000391.1|AP000391 8.0e-61 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01		

Seq. No.	53205	Seq. ID	OJ990317_08.0421.C80
Gene No.	112140	Strand	+
Start	2493	End	6036
Name	OJ990317_08.0421.C80.o3.np	Method	AAT/NAP
Start	2624	End	6036
GI	6539570	Score	189
Exons	2624..2735, 4236..4326, 4486..4551, 6007..6036		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	53205	Seq. ID	OJ990317_08.0421.C80
Gene No.	112141	Strand	-
Start	3465	End	4035
Name	OJ990317_08.0421.C80.o2.gp	Method	AAT/GAP
Start	3465	End	4035
GI	4879016	Score	914
Exons	3465..4035		
GI Descrip.	6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	53205	Seq. ID	OJ990317_08.0421.C80
Gene No.	112142	Strand	-
Start	4230	End	4339
Name	OJ990317_08.0421.C80.o3.gp	Method	AAT/GAP
Start	4230	End	4339
GI	LIB3479-006-Q6-K1-B11	Score	137
Exons	4230..4339		
GI Descrip.	'5734616/dbj|AP000391.1|AP000391 1.0e-110 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	53206	Seq. ID	OJ990317_08.0421.C81
Gene No.	112143	Strand	+

Start	407	End	574
Name	OJ990317_08.0421.C81.o1.gs	Method	GENSCAN
Start	407	End	574
GI	none	Score	.5
Exons	407..574		

Seq. No.	53206	Seq. ID	OJ990317_08.0421.C81
Gene No.	112144	Strand	-
Start	3162	End	4852
Name	OJ990317_08.0421.C81.o2.gs	Method	GENSCAN
Start	3162	End	4852
GI	none	Score	.92
Exons	3162..3373, 3621..3675, 4820..4852		

Seq. No.	53206	Seq. ID	OJ990317_08.0421.C81
Gene No.	112144	Strand	-
Start	3162	End	4852
Name	OJ990317_08.0421.C81.o1.tm	Method	TBLASTX:Maize
Start	3181	End	3676
GI	none	Score	105
Exons	3181..3279, 3192..3278, 3199..3279, 3299..3373, 3309..3374, 3318..3392, 3349..3393, 3447..3536, 3456..3536, 3460..3546, 3460..3546, 3621..3674, 3622..3675, 3623..3676		

Seq. No.	53207	Seq. ID	OJ990317_08.0421.C83
Gene No.	112145	Strand	-
Start	850	End	1017
Name	OJ990317_08.0421.C83.o1.gs	Method	GENSCAN
Start	850	End	1017
GI	none	Score	.55
Exons	850..1017		

Seq. No.	53207	Seq. ID	OJ990317_08.0421.C83
Gene No.	112146	Strand	-
Start	1293	End	1858
Name	OJ990317_08.0421.C83.o1.gp	Method	AAT/GAP
Start	1293	End	1858
GI	4879016	Score	817
Exons	1293..1858		
GI Descrip.	6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence		

Seq. No.	53208	Seq. ID	OJ991114_45.0419.C1
Gene No.	112147	Strand	+
Start	528	End	718
Name	OJ991114_45.0419.C1.o1.gp	Method	AAT/GAP
Start	528	End	718
GI	uC-osroM202019h07a1	Score	268
Exons	528..718		
GI Descrip.	'5091496/dbj|AB023482.2|AB023482 3.0e-13 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	53209	Seq. ID	OJ991114_45.0419.C4
Gene No.	112148	Strand	+
Start	429	End	717
Name	OJ991114_45.0419.C4.o1.gs	Method	GENSCAN

Start	429	End	717
GI	none	Score	.77
Exons	429..717		

Seq. No.	53210	Seq. ID	OJ991114_45.0419.C5
Gene No.	112149	Strand	-
Start	983	End	1098
Name	OJ991114_45.0419.C5.o1.gs	Method	GENSCAN
Start	983	End	1098
GI	none	Score	.46
Exons	983..1098		

Seq. No.	53211	Seq. ID	OJ991114_45.0419.C7
Gene No.	112150	Strand	+
Start	577	End	1167
Name	OJ991114_45.0419.C7.o1.gs	Method	GENSCAN
Start	577	End	1167
GI	none	Score	.63
Exons	577..664, 1090..1167		

Seq. No.	53212	Seq. ID	OJ991114_45.0419.C9
Gene No.	112151	Strand	+
Start	282	End	590
Name	OJ991114_45.0419.C9.o1.gs	Method	GENSCAN
Start	282	End	590
GI	none	Score	.98
Exons	282..461, 467..590		

Seq. No.	53212	Seq. ID	OJ991114_45.0419.C9
Gene No.	112152	Strand	-
Start	1078	End	1364
Name	OJ991114_45.0419.C9.o2.gs	Method	GENSCAN
Start	1078	End	1364
GI	none	Score	.64
Exons	1078..1249, 1343..1364		

Seq. No.	53213	Seq. ID	OJ991114_45.0419.C11
Gene No.	112153	Strand	+
Start	486	End	1036
Name	OJ991114_45.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	473	End	1036
GI	none	Score	190
Exons	473..610, 483..620, 486..608, 947..1036, 947..1036		

Seq. No.	53213	Seq. ID	OJ991114_45.0419.C11
Gene No.	112153	Strand	+
Start	486	End	1036
Name	OJ991114_45.0419.C11.o1.np	Method	AAT/NAP
Start	486	End	1036
GI	5263310	Score	208
Exons	486..605, 947..1036		
GI Descrip.	(AC007727) EST gb|N95925 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	53213	Seq. ID	OJ991114_45.0419.C11
Gene No.	112153	Strand	+
Start	486	End	1036

Name	OJ991114_45.0419.C11.o1.gp	Method	AAT/GAP
Start	565	End	1036
GI	36104_1.R1084	Score	202
Exons	565..605, 947..1036		
GI Descrip.	'5263310/gb|AAD41412.1|AC007727_1 1.0e-16 (AC007727) EST gb_N95925 comes from this gene. [Arabidopsis thaliana]'		

Seq. No.	53214	Seq. ID	OJ991114_45.0419.C12
Gene No.	112154	Strand	+
Start	475	End	735
Name	OJ991114_45.0419.C12.o1.gp	Method	AAT/GAP
Start	475	End	735
GI	2276005	Score	467
Exons	475..735		

Seq. No.	53214	Seq. ID	OJ991114_45.0419.C12
Gene No.	112154	Strand	+
Start	475	End	735
Name	OJ991114_45.0419.C12.o1.gs	Method	GENSCAN
Start	486	End	662
GI	none	Score	.98
Exons	486..662		

Seq. No.	53215	Seq. ID	OJ991114_45.0419.C13
Gene No.	112155	Strand	+
Start	448	End	585
Name	OJ991114_45.0419.C13.o1.gp	Method	AAT/GAP
Start	448	End	585
GI	3767120	Score	196
Exons	448..585		

Seq. No.	53216	Seq. ID	OJ991114_45.0419.C18
Gene No.	112156	Strand	-
Start	108	End	1583
Name	OJ991114_45.0419.C18.o1.gs	Method	GENSCAN
Start	108	End	1583
GI	none	Score	.66
Exons	108..159, 457..580, 700..734, 1106..1230, 1281..1583		

Seq. No.	53217	Seq. ID	OJ991114_45.0419.C32
Gene No.	112157	Strand	+
Start	194	End	1752
Name	OJ991114_45.0419.C32.o1.gs	Method	GENSCAN
Start	194	End	1714
GI	none	Score	.78
Exons	194..325, 489..680, 945..1110, 1353..1714		

Seq. No.	53217	Seq. ID	OJ991114_45.0419.C32
Gene No.	112157	Strand	+
Start	194	End	1752
Name	OJ991114_45.0419.C32.o1.np	Method	AAT/NAP
Start	201	End	1720
GI	6093671	Score	970
Exons	201..397, 483..680, 945..1110, 1338..1720		
GI Descrip.	CATIONIC PEROXIDASE 1 PRECURSOR gi|1491776|gb|AAB06183.1| (M37636) cationic peroxidase [Arachis hypogaea]		

Seq. No.	53217	Seq. ID	OJ991114_45.0419.C32
Gene No.	112157	Strand	+
Start	194	End	1752
Name	OJ991114_45.0419.C32.o2.tw	Method	TBLASTX:Wheat
Start	212	End	674
GI	none	Score	113
Exons	212..400, 265..402, 483..557, 488..556, 549..674, 566..673		

Seq. No.	53217	Seq. ID	OJ991114_45.0419.C32
Gene No.	112157	Strand	+
Start	194	End	1752
Name	OJ991114_45.0419.C32.o1.tm	Method	TBLASTX:Maize
Start	227	End	1752
GI	none	Score	101
Exons	227..343, 256..342, 352..399, 353..400, 570..689, 578..688, 927..992, 981..1112, 1331..1462, 1336..1461, 1449..1556, 1451..1720, 1486..1752, 1537..1695, 1646..1720		

Seq. No.	53217	Seq. ID	OJ991114_45.0419.C32
Gene No.	112157	Strand	+
Start	194	End	1752
Name	OJ991114_45.0419.C32.o1.tc	Method	TBLASTX:Cress
Start	254	End	1729
GI	none	Score	133
Exons	254..403, 346..402, 483..689, 488..688, 909..1112, 947..1111, 1331..1393, 1451..1729		

Seq. No.	53217	Seq. ID	OJ991114_45.0419.C32
Gene No.	112157	Strand	+
Start	194	End	1752
Name	OJ991114_45.0419.C32.o1.ts	Method	TBLASTX:Soybean
Start	257	End	1723
GI	none	Score	175
Exons	257..403, 265..402, 309..410, 330..410, 483..689, 486..674, 488..706, 945..1112, 947..1045, 1331..1465, 1336..1455, 1451..1723, 1537..1695		

Seq. No.	53217	Seq. ID	OJ991114_45.0419.C32
Gene No.	112157	Strand	+
Start	194	End	1752
Name	OJ991114_45.0419.C32.o1.tw	Method	TBLASTX:Wheat
Start	947	End	1579
GI	none	Score	180
Exons	947..1111, 948..1112, 1331..1462, 1335..1406, 1336..1464, 1337..1462, 1457..1579, 1537..1578		

Seq. No.	53218	Seq. ID	OJ991114_45.0419.C35
Gene No.	112158	Strand	-
Start	313	End	586
Name	OJ991114_45.0419.C35.o1.gs	Method	GENSCAN
Start	313	End	586
GI	none	Score	.62
Exons	313..405, 518..586		

Seq. No.	53219	Seq. ID	OJ991114_45.0419.C41
Gene No.	112159	Strand	+
Start	65	End	393

Name	OJ991114_45.0419.C41.o1.gp	Method	AAT/GAP
Start	65	End	393
GI	2309687	Score	143
Exons	65..154, 340..393		

Seq. No.	53219	Seq. ID	OJ991114_45.0419.C41
Gene No.	112160	Strand	-
Start	520	End	759
Name	OJ991114_45.0419.C41.o1.gs	Method	GENSCAN
Start	520	End	759
GI	none	Score	.66
Exons	520..580, 611..759		

Seq. No.	53220	Seq. ID	OJ991114_45.0419.C42
Gene No.	112161	Strand	+
Start	1704	End	1791
Name	OJ991114_45.0419.C42.o1.gp	Method	AAT/GAP
Start	1704	End	1791
GI	none	Score	168
Exons	1704..1791		

Seq. No.	53221	Seq. ID	OJ991114_45.0419.C43
Gene No.	112162	Strand	+
Start	1	End	1610
Name	OJ991114_45.0419.C43.o1.np	Method	AAT/NAP
Start	1	End	1350
GI	6580146	Score	277
Exons	1..554, 689..1194, 1252..1350		
GI Descrip.	(AL132968) putative protein [Arabidopsis thaliana]		

Seq. No.	53221	Seq. ID	OJ991114_45.0419.C43
Gene No.	112162	Strand	+
Start	1	End	1610
Name	OJ991114_45.0419.C43.o1.gp	Method	AAT/GAP
Start	381	End	1161
GI	none	Score	1219
Exons	381..539, 671..1161		

Seq. No.	53221	Seq. ID	OJ991114_45.0419.C43
Gene No.	112162	Strand	+
Start	1	End	1610
Name	OJ991114_45.0419.C43.o1.tm	Method	TBLASTX:Maize
Start	464	End	1610
GI	none	Score	56
Exons	464..541, 654..1175, 671..1234, 671..1174, 1039..1233, 1186..1263, 1205..1366, 1264..1365, 1266..1379, 1266..1367, 1383..1508, 1384..1500, 1391..1504, 1513..1596, 1515..1610		

Seq. No.	53221	Seq. ID	OJ991114_45.0419.C43
Gene No.	112162	Strand	+
Start	1	End	1610
Name	OJ991114_45.0419.C43.o1.ts	Method	TBLASTX:Soybean
Start	998	End	1180
GI	none	Score	158
Exons	998..1150, 1051..1104, 1139..1180, 1144..1170		

Seq. No.	53222	Seq. ID	OJ991114_45.0419.C46

Gene No.	112163	Strand	-
Start	474	End	1032
Name	OJ991114_45.0419.C46.o1.gp	Method	AAT/GAP
Start	474	End	1032
GI	771_2.R1084	Score	989
Exons	474..1032		
GI Descrip.	'5381253/dbj|BAA82306.1| 2.0e-09 (AB027752) peroxidase [Nicotiana tabacum]'		

Seq. No.	53222	Seq. ID	OJ991114_45.0419.C46
Gene No.	112163	Strand	-
Start	474	End	1032
Name	OJ991114_45.0419.C46.o1.np	Method	AAT/NAP
Start	692	End	1032
GI	3282394	Score	486
Exons	692..1032		
GI Descrip.	(AF014930) anaerobically inducible early gene 2 [Oryza sativa]		

Seq. No.	53222	Seq. ID	OJ991114_45.0419.C46
Gene No.	112163	Strand	-
Start	474	End	1032
Name	OJ991114_45.0419.C46.o1.tm	Method	TBLASTX:Maize
Start	755	End	1018
GI	none	Score	76
Exons	755..835, 757..963, 955..1014, 956..1018		

Seq. No.	53222	Seq. ID	OJ991114_45.0419.C46
Gene No.	112163	Strand	-
Start	474	End	1032
Name	OJ991114_45.0419.C46.o1.gs	Method	GENSCAN
Start	770	End	951
GI	none	Score	.62
Exons	770..951		

Seq. No.	53223	Seq. ID	OJ991114_45.0419.C49
Gene No.	112164	Strand	+
Start	1	End	526
Name	OJ991114_45.0419.C49.o1.gp	Method	AAT/GAP
Start	1	End	526
GI	16072_1.R1084	Score	512
Exons	1..172, 421..526		
GI Descrip.	'6016700/gb|AAF01527.1|AC009991_23 2.0e-30 (AC009991) unknown protein [Arabidopsis thaliana]'		

Seq. No.	53223	Seq. ID	OJ991114_45.0419.C49
Gene No.	112165	Strand	+
Start	445	End	526
Name	OJ991114_45.0419.C49.o1.gs	Method	GENSCAN
Start	445	End	526
GI	none	Score	.89
Exons	445..526		

Seq. No.	53224	Seq. ID	OJ991114_45.0419.C51
Gene No.	112166	Strand	+
Start	683	End	1146
Name	OJ991114_45.0419.C51.o1.gs	Method	GENSCAN
Start	683	End	1138

GI	none	Score	.83
Exons	683..743, 1040..1138		
Seq. No.	53224	Seq. ID	OJ991114_45.0419.C51
Gene No.	112166	Strand	+
Start	683	End	1146
Name	OJ991114_45.0419.C51.o1.gp	Method	AAT/GAP
Start	1004	End	1146
GI	771_2.R1084	Score	223
Exons	1004..1146		
GI Descrip.	'5381253/dbj|BAA82306.1| 2.0e-09 (AB027752) peroxidase [Nicotiana tabacum]'		
Seq. No.	53225	Seq. ID	OJ991114_45.0419.C52
Gene No.	112167	Strand	+
Start	630	End	818
Name	OJ991114_45.0419.C52.o1.gs	Method	GENSCAN
Start	630	End	818
GI	none	Score	.6
Exons	630..818		
Seq. No.	53226	Seq. ID	OJ991114_45.0419.C53
Gene No.	112168	Strand	+
Start	1	End	92
Name	OJ991114_45.0419.C53.o1.gp	Method	AAT/GAP
Start	1	End	92
GI	2276005	Score	165
Exons	1..92		
Seq. No.	53226	Seq. ID	OJ991114_45.0419.C53
Gene No.	112169	Strand	+
Start	8	End	535
Name	OJ991114_45.0419.C53.o1.gs	Method	GENSCAN
Start	8	End	535
GI	none	Score	1
Exons	8..535		
Seq. No.	53226	Seq. ID	OJ991114_45.0419.C53
Gene No.	112169	Strand	+
Start	8	End	535
Name	OJ991114_45.0419.C53.o1.tm	Method	TBLASTX:Maize
Start	191	End	490
GI	none	Score	363
Exons	191..490, 191..286, 193..471		
Seq. No.	53227	Seq. ID	OJ991114_45.0419.C56
Gene No.	112170	Strand	+
Start	1	End	867
Name	OJ991114_45.0419.C56.o1.np	Method	AAT/NAP
Start	1	End	867
GI	6403497	Score	647
Exons	1..168, 287..440, 538..682, 765..867		
GI Descrip.	(AC010871) unknown protein [Arabidopsis thaliana]		
Seq. No.	53227	Seq. ID	OJ991114_45.0419.C56
Gene No.	112171	Strand	+
Start	778	End	843

Name	OJ991114_45.0419.C56.o1.ts	Method	TBLASTX:Soybean
Start	287	End	693
GI	none	Score	88
Exons	287..349, 288..380, 350..439, 537..683, 562..693	355..438, 356..439, 536..682,	

Seq. No.	53227	Seq. ID	OJ991114_45.0419.C56
Gene No.	112171	Strand	+
Start	778	End	843
Name	OJ991114_45.0419.C56.o1.tm	Method	TBLASTX:Maize
Start	539	End	843
GI	none	Score	246
Exons	539..682, 540..683, 543..686, 766..843	764..841, 765..842, 765..842,	

Seq. No.	53227	Seq. ID	OJ991114_45.0419.C56
Gene No.	112171	Strand	+
Start	778	End	843
Name	OJ991114_45.0419.C56.o1.gs	Method	GENSCAN
Start	778	End	843
GI	none	Score	.68
Exons	778..843		

Seq. No.	53228	Seq. ID	OJ991114_45.0419.C58
Gene No.	112172	Strand	-
Start	363	End	1501
Name	OJ991114_45.0419.C58.o1.gs	Method	GENSCAN
Start	363	End	1438
GI	none	Score	.91
Exons	363..398, 751..1155, 1243..1438		

Seq. No.	53228	Seq. ID	OJ991114_45.0419.C58
Gene No.	112172	Strand	-
Start	363	End	1501
Name	OJ991114_45.0419.C58.o1.np	Method	AAT/NAP
Start	675	End	1501
GI	7486943	Score	874
Exons	675..1155, 1243..1501		
GI Descrip.	hypothetical protein T13E15.2 - Arabidopsis thaliana gi|4895253|gb|AAD32838.1|AC007659_20 (AC007659) unknown protein [Arabidopsis thaliana]		

Seq. No.	53228	Seq. ID	OJ991114_45.0419.C58
Gene No.	112172	Strand	-
Start	363	End	1501
Name	OJ991114_45.0419.C58.o1.tm	Method	TBLASTX:Maize
Start	698	End	1047
GI	none	Score	371
Exons	698..1024, 703..1047, 707..1039		

Seq. No.	53228	Seq. ID	OJ991114_45.0419.C58
Gene No.	112172	Strand	-
Start	363	End	1501
Name	OJ991114_45.0419.C58.o1.tc	Method	TBLASTX:Cress
Start	703	End	1392
GI	none	Score	172
Exons	703..768, 775..966, 800..961,	998..1126, 1003..1131, 1072..1161,	

1250..1378, 1261..1392, 1262..1390

Seq. No.	53228	Seq. ID	OJ991114_45.0419.C58
Gene No.	112172	Strand	-
Start	363	End	1501
Name	OJ991114_45.0419.C58.o1.ts	Method	TBLASTX:Soybean
Start	703	End	1290
GI	none	Score	39
Exons	703..768, 707..751, 778..987, 783..938, 796..975, 800..1000, 964..1161, 983..1129, 1003..1137, 1110..1157, 1243..1290		

Seq. No.	53228	Seq. ID	OJ991114_45.0419.C58
Gene No.	112172	Strand	-
Start	363	End	1501
Name	OJ991114_45.0419.C58.o2.tm	Method	TBLASTX:Maize
Start	1241	End	1476
GI	none	Score	295
Exons	1241..1474, 1243..1476, 1244..1474		

Seq. No.	53228	Seq. ID	OJ991114_45.0419.C58
Gene No.	112172	Strand	-
Start	363	End	1501
Name	OJ991114_45.0419.C58.o2.ts	Method	TBLASTX:Soybean
Start	1291	End	1501
GI	none	Score	222
Exons	1291..1500, 1292..1501, 1292..1501		

Seq. No.	53228	Seq. ID	OJ991114_45.0419.C58
Gene No.	112172	Strand	-
Start	363	End	1501
Name	OJ991114_45.0419.C58.o1.gp	Method	AAT/GAP
Start	1367	End	1501
GI	2312388	Score	241
Exons	1367..1501		
GI Descrip.	2344887 3.0e-30 (AC002388) unknown protein [Arabidopsis thaliana] >gi_4895253_gb_AAD32838.1_AC007659_20 (AC007659) unknown protein [Arabidopsis thaliana]		

Seq. No.	53229	Seq. ID	OJ991114_45.0419.C59
Gene No.	112173	Strand	-
Start	324	End	1018
Name	OJ991114_45.0419.C59.o1.gs	Method	GENSCAN
Start	324	End	1018
GI	none	Score	.6
Exons	324..522, 634..772, 887..1018		

Seq. No.	53229	Seq. ID	OJ991114_45.0419.C59
Gene No.	112173	Strand	-
Start	324	End	1018
Name	OJ991114_45.0419.C59.o1.tm	Method	TBLASTX:Maize
Start	329	End	974
GI	none	Score	75
Exons	329..430, 330..428, 331..429, 422..547, 437..517, 441..518, 626..751, 630..773, 632..772, 640..777, 642..833, 890..943, 897..974		

Seq. No.	53230	Seq. ID	OJ991114_45.0419.C60

Gene No.	112174	Strand	+
Start	180	End	221
Name	OJ991114_45.0419.C60.o1.gs	Method	GENSCAN
Start	180	End	221
GI	none	Score	.65
Exons	180..221		

Seq. No.	53231	Seq. ID	OJ991114_45.0419.C61
Gene No.	112175	Strand	-
Start	1233	End	1537
Name	OJ991114_45.0419.C61.o1.np	Method	AAT/NAP
Start	1233	End	1537
GI	6691203	Score	64
Exons	1233..1353, 1508..1537		
GI Descrip.	(AC007508) F1K23.7 [Arabidopsis thaliana]		

Seq. No.	53231	Seq. ID	OJ991114_45.0419.C61
Gene No.	112175	Strand	-
Start	1233	End	1537
Name	OJ991114_45.0419.C61.o1.gs	Method	GENSCAN
Start	1235	End	1437
GI	none	Score	.54
Exons	1235..1437		

Seq. No.	53232	Seq. ID	OJ991114_45.0419.C65
Gene No.	112176	Strand	+
Start	466	End	721
Name	OJ991114_45.0419.C65.o1.gp	Method	AAT/GAP
Start	466	End	721
GI	2428314	Score	442
Exons	466..721		
GI Descrip.	6016700/gb|AAF01527.1|AC009991_23 2.0e-30 (AC009991) unknown protein [Arabidopsis thaliana]		

Seq. No.	53232	Seq. ID	OJ991114_45.0419.C65
Gene No.	112177	Strand	-
Start	1	End	721
Name	OJ991114_45.0419.C65.o1.np	Method	AAT/NAP
Start	1	End	721
GI	6016700	Score	67
Exons	1..25, 475..721		
GI Descrip.	(AC009991) unknown protein [Arabidopsis thaliana]		

Seq. No.	53232	Seq. ID	OJ991114_45.0419.C65
Gene No.	112177	Strand	-
Start	1	End	721
Name	OJ991114_45.0419.C65.o1.gs	Method	GENSCAN
Start	476	End	710
GI	none	Score	.66
Exons	476..710		

Seq. No.	53233	Seq. ID	OJ991114_45.0419.C67
Gene No.	112178	Strand	+
Start	402	End	881
Name	OJ991114_45.0419.C67.o1.np	Method	AAT/NAP
Start	402	End	881
GI	7523517	Score	240

Exons	402..702, 852..881		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		
Seq. No.	53233	Seq. ID	OJ991114_45.0419.C67
Gene No.	112179	Strand	-
Start	554	End	853
Name	OJ991114_45.0419.C67.o1.gs	Method	GENSCAN
Start	554	End	853
GI	none	Score	.57
Exons	554..645, 784..853		
Seq. No.	53234	Seq. ID	OJ991114_45.0419.C71
Gene No.	112180	Strand	-
Start	565	End	1166
Name	OJ991114_45.0419.C71.o1.np	Method	AAT/NAP
Start	565	End	1166
GI	7329650	Score	94
Exons	565..690, 1140..1166		
GI Descrip.	(AL162351) putative protein [Arabidopsis thaliana]		
Seq. No.	53235	Seq. ID	OJ991114_45.0419.C74
Gene No.	112181	Strand	-
Start	1	End	736
Name	OJ991114_45.0419.C74.o1.np	Method	AAT/NAP
Start	1	End	736
GI	7258378	Score	104
Exons	1..244, 699..736		
GI Descrip.	(AL138650) putative protein [Arabidopsis thaliana]		
Seq. No.	53235	Seq. ID	OJ991114_45.0419.C74
Gene No.	112181	Strand	-
Start	1	End	736
Name	OJ991114_45.0419.C74.o1.gs	Method	GENSCAN
Start	29	End	244
GI	none	Score	.87
Exons	29..244		
Seq. No.	53236	Seq. ID	OJ991114_45.0419.C76
Gene No.	112182	Strand	+
Start	1	End	1087
Name	OJ991114_45.0419.C76.o1.np	Method	AAT/NAP
Start	1	End	1087
GI	3738339	Score	323
Exons	1..35, 427..591, 723..1087		
GI Descrip.	(AC005170) putative LRR receptor protein kinase [Arabidopsis thaliana]		
Seq. No.	53236	Seq. ID	OJ991114_45.0419.C76
Gene No.	112182	Strand	+
Start	1	End	1087
Name	OJ991114_45.0419.C76.o1.gs	Method	GENSCAN
Start	117	End	912
GI	none	Score	.78
Exons	117..276, 405..590, 674..912		
Seq. No.	53236	Seq. ID	OJ991114_45.0419.C76
Gene No.	112182	Strand	+

Start	1	End	1087
Name	OJ991114_45.0419.C76.o1.tw	Method	TBLASTX:Wheat
Start	664	End	966
GI	none	Score	185
Exons	664..966, 753..926		

Seq. No.	53236	Seq. ID	OJ991114_45.0419.C76
Gene No.	112182	Strand	+
Start	1	End	1087
Name	OJ991114_45.0419.C76.o1.tc	Method	TBLASTX:Cress
Start	724	End	1033
GI	none	Score	192
Exons	724..891, 735..890, 888..968, 889..969, 998..1033		

Seq. No.	53236	Seq. ID	OJ991114_45.0419.C76
Gene No.	112182	Strand	+
Start	1	End	1087
Name	OJ991114_45.0419.C76.o1.tm	Method	TBLASTX:Maize
Start	724	End	1040
GI	none	Score	193
Exons	724..891, 732..890, 871..969, 873..968, 1005..1040		

Seq. No.	53236	Seq. ID	OJ991114_45.0419.C76
Gene No.	112182	Strand	+
Start	1	End	1087
Name	OJ991114_45.0419.C76.o1.ts	Method	TBLASTX:Soybean
Start	724	End	1040
GI	none	Score	187
Exons	724..891, 732..890, 871..969, 873..968, 1005..1040		

Seq. No.	53237	Seq. ID	OJ991114_45.0419.C85
Gene No.	112183	Strand	+
Start	141	End	989
Name	OJ991114_45.0419.C85.o1.gs	Method	GENSCAN
Start	141	End	989
GI	none	Score	.59
Exons	141..284, 498..662, 703..989		

Seq. No.	53238	Seq. ID	OJ991114_45.0419.C86
Gene No.	112184	Strand	-
Start	235	End	964
Name	OJ991114_45.0419.C86.o1.np	Method	AAT/NAP
Start	235	End	925
GI	7299128	Score	190
Exons	235..279, 633..756, 840..925		
GI Descrip.	(AE003681) CG11985 gene product [Drosophila melanogaster]		

Seq. No.	53238	Seq. ID	OJ991114_45.0419.C86
Gene No.	112184	Strand	-
Start	235	End	964
Name	OJ991114_45.0419.C86.o1.gp	Method	AAT/GAP
Start	588	End	964
GI	uC-osflM202123h09b1	Score	361
Exons	588..756, 840..964		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	53238	Seq. ID	OJ991114_45.0419.C86
Gene No.	112184	Strand	-
Start	235	End	964
Name	OJ991114_45.0419.C86.o1.tc	Method	TBLASTX:Cress
Start	630	End	931
GI	none	Score	96
Exons	630..755, 633..755, 634..756,	840..926, 840..908, 842..931	

Seq. No.	53238	Seq. ID	OJ991114_45.0419.C86
Gene No.	112184	Strand	-
Start	235	End	964
Name	OJ991114_45.0419.C86.o1.tm	Method	TBLASTX:Maize
Start	630	End	943
GI	none	Score	159
Exons	630..755, 633..755, 634..756,	840..926, 842..943	

Seq. No.	53238	Seq. ID	OJ991114_45.0419.C86
Gene No.	112184	Strand	-
Start	235	End	964
Name	OJ991114_45.0419.C86.o1.gs	Method	GENSCAN
Start	633	End	756
GI	none	Score	.8
Exons	633..756		

Seq. No.	53238	Seq. ID	OJ991114_45.0419.C86
Gene No.	112184	Strand	-
Start	235	End	964
Name	OJ991114_45.0419.C86.o1.ts	Method	TBLASTX:Soybean
Start	633	End	940
GI	none	Score	142
Exons	633..755, 634..756, 840..926,	840..908, 841..927, 842..940	

Seq. No.	53239	Seq. ID	OJ991114_45.0419.C87
Gene No.	112185	Strand	-
Start	98	End	182
Name	OJ991114_45.0419.C87.o1.gp	Method	AAT/GAP
Start	98	End	182
GI	uC-osf1M202123h09b1	Score	109
Exons	98..182		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	53240	Seq. ID	OJ991114_45.0419.C88
Gene No.	112186	Strand	+
Start	414	End	581
Name	OJ991114_45.0419.C88.o1.gs	Method	GENSCAN
Start	414	End	581
GI	none	Score	.89
Exons	414..581		

Seq. No.	53241	Seq. ID	OJ991114_45.0419.C89
Gene No.	112187	Strand	-
Start	552	End	668
Name	OJ991114_45.0419.C89.o1.gs	Method	GENSCAN
Start	552	End	668
GI	none	Score	.63
Exons	552..668		

Seq. No.	53242	Seq. ID	OJ991114_45.0419.C90
Gene No.	112188	Strand	-
Start	486	End	786
Name	OJ991114_45.0419.C90.o1.gs	Method	GENSCAN
Start	486	End	786
GI	none	Score	.8
Exons	486..634, 657..786		

Seq. No.	53243	Seq. ID	OJ991114_45.0419.C91
Gene No.	112189	Strand	-
Start	1	End	792
Name	OJ991114_45.0419.C91.o1.np	Method	AAT/NAP
Start	1	End	792
GI	7106514	Score	65
Exons	1..116, 735..792		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	53244	Seq. ID	OJ991114_45.0419.C92
Gene No.	112190	Strand	-
Start	1	End	997
Name	OJ991114_45.0419.C92.o1.np	Method	AAT/NAP
Start	1	End	997
GI	7488558	Score	172
Exons	1..705, 972..997		
GI Descrip.	hypothetical protein 1 - wild cabbage transposon Melmoth gi|2462935|emb|CAA72989.1| (Y12321) open reading frame 1 [Brassica oleracea]		

Seq. No.	53244	Seq. ID	OJ991114_45.0419.C92
Gene No.	112190	Strand	-
Start	1	End	997
Name	OJ991114_45.0419.C92.o1.tm	Method	TBLASTX:Maize
Start	3	End	329
GI	none	Score	113
Exons	3..200, 3..329, 7..321		

Seq. No.	53244	Seq. ID	OJ991114_45.0419.C92
Gene No.	112190	Strand	-
Start	1	End	997
Name	OJ991114_45.0419.C92.o1.gs	Method	GENSCAN
Start	283	End	923
GI	none	Score	.42
Exons	283..400, 641..923		

Seq. No.	53244	Seq. ID	OJ991114_45.0419.C92
Gene No.	112190	Strand	-
Start	1	End	997
Name	OJ991114_45.0419.C92.o2.tm	Method	TBLASTX:Maize
Start	447	End	688
GI	none	Score	194
Exons	447..677, 448..678, 461..688		

Seq. No.	53245	Seq. ID	OJ991114_45.0419.C94
Gene No.	112191	Strand	-
Start	192	End	1560
Name	OJ991114_45.0419.C94.o1.tc	Method	TBLASTX:Cress

Start	190	End	687
GI	none	Score	59
Exons	190..270, 224..271, 353..415,	357..413,	599..676, 616..687

Seq. No.	53245	Seq. ID	OJ991114_45.0419.C94
Gene No.	112191	Strand	-
Start	192	End	1560
Name	OJ991114_45.0419.C94.o1.tm	Method	TBLASTX:Maize
Start	190	End	954
GI	none	Score	60
Exons	190..270, 227..271, 359..412, 862..954, 862..954	360..413,	604..684, 623..688,

Seq. No.	53245	Seq. ID	OJ991114_45.0419.C94
Gene No.	112191	Strand	-
Start	192	End	1560
Name	OJ991114_45.0419.C94.o1.gs	Method	GENSCAN
Start	192	End	1560
GI	none	Score	.63
Exons	192..281, 360..410, 615..687, 1476..1560	862..950,	1199..1280, 1379..1407,

Seq. No.	53245	Seq. ID	OJ991114_45.0419.C94
Gene No.	112191	Strand	-
Start	192	End	1560
Name	OJ991114_45.0419.C94.o1.np	Method	AAT/NAP
Start	192	End	1539
GI	6587812	Score	483
Exons	192..268, 360..412, 616..687,	862..950,	1199..1280, 1379..1539
GI Descrip.	(AC010924) Similar to gb|U44028 transcription factor CKC from Arabidopsis thaliana and contains two PF|00847 AP2 domains.		

Seq. No.	53246	Seq. ID	OJ991114_45.0419.C96
Gene No.	112192	Strand	+
Start	106	End	210
Name	OJ991114_45.0419.C96.o1.gs	Method	GENSCAN
Start	106	End	210
GI	none	Score	.63
Exons	106..210		

Seq. No.	53247	Seq. ID	OJ991114_45.0419.C103
Gene No.	112193	Strand	+
Start	1	End	684
Name	OJ991114_45.0419.C103.o1.np	Method	AAT/NAP
Start	1	End	246
GI	7487468	Score	190
Exons	1..246		
GI Descrip.	hypothetical protein T27D20.7 - Arabidopsis thaliana gi|3377848|gb|AAC28230.1| (AF076274) contains similarity to reverse transcriptases (Pfam: rvt.hmm, score: 12.22) [Arabidopsis thaliana] gi|7267185|emb|CAB77897.1| (AL161499) putative reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	53247	Seq. ID	OJ991114_45.0419.C103
Gene No.	112193	Strand	+
Start	1	End	684
Name	OJ991114_45.0419.C103.o1.gs	Method	GENSCAN

Start	7	End	684
GI	none	Score	.6
Exons	7..223, 649..684		

Seq. No.	53247	Seq. ID	OJ991114_45.0419.C103
Gene No.	112194	Strand	-
Start	1	End	421
Name	OJ991114_45.0419.C103.o1.gp	Method	AAT/GAP
Start	1	End	350
GI	LIB3431-011-P1-N1-B2	Score	696
Exons	1..350		
GI Descrip.	'3377848 3.0e-15 (AF076274) contains similarity to reverse transcriptases (Pfam: rvt.hmm, score: 12.22) [Arabidopsis thaliana]'		

Seq. No.	53247	Seq. ID	OJ991114_45.0419.C103
Gene No.	112194	Strand	-
Start	1	End	421
Name	OJ991114_45.0419.C103.o1.tc	Method	TBLASTX:Cress
Start	1	End	421
GI	none	Score	187
Exons	1..264, 15..194, 243..269, 383..421		

Seq. No.	53247	Seq. ID	OJ991114_45.0419.C103
Gene No.	112194	Strand	-
Start	1	End	421
Name	OJ991114_45.0419.C103.o1.tm	Method	TBLASTX:Maize
Start	1	End	330
GI	none	Score	344
Exons	1..282, 4..330		

Seq. No.	53247	Seq. ID	OJ991114_45.0419.C103
Gene No.	112194	Strand	-
Start	1	End	421
Name	OJ991114_45.0419.C103.o1.ts	Method	TBLASTX:Soybean
Start	4	End	264
GI	none	Score	229
Exons	4..111, 10..264, 63..263, 175..264		

Seq. No.	53248	Seq. ID	OJ991114_45.0419.C105
Gene No.	112195	Strand	+
Start	770	End	2246
Name	OJ991114_45.0419.C105.o1.gs	Method	GENSCAN
Start	770	End	2246
GI	none	Score	.45
Exons	770..1375, 2053..2112, 2187..2246		

Seq. No.	53249	Seq. ID	OJ991114_45.0419.C107
Gene No.	112196	Strand	+
Start	159	End	321
Name	OJ991114_45.0419.C107.o1.gs	Method	GENSCAN
Start	159	End	321
GI	none	Score	.87
Exons	159..321		

Seq. No.	53250	Seq. ID	OJ991114_45.0419.C109
Gene No.	112197	Strand	-

Start	967	End	1498
Name	OJ991114_45.0419.C109.o1.gs	Method	GENSCAN
Start	967	End	1498
GI	none	Score	.56
Exons	967..1141, 1398..1498		

Seq. No.	53251	Seq. ID	OJ991114_46.0419.C1
Gene No.	112198	Strand	+
Start	33	End	1038
Name	OJ991114_46.0419.C1.o1.gs	Method	GENSCAN
Start	33	End	1038
GI	none	Score	.71
Exons	33..180, 348..490, 492..1038		

Seq. No.	53252	Seq. ID	OJ991114_46.0419.C2
Gene No.	112199	Strand	+
Start	58	End	1046
Name	OJ991114_46.0419.C2.o1.gs	Method	GENSCAN
Start	58	End	1046
GI	none	Score	.79
Exons	58..231, 326..436, 521..551, 864..1046		

Seq. No.	53252	Seq. ID	OJ991114_46.0419.C2
Gene No.	112200	Strand	+
Start	1221	End	1696
Name	OJ991114_46.0419.C2.o1.gp	Method	AAT/GAP
Start	1221	End	1696
GI	LIB3477-003-P1-K1-E9	Score	132
Exons	1221..1350, 1672..1696		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	53252	Seq. ID	OJ991114_46.0419.C2
Gene No.	112201	Strand	+
Start	2439	End	4518
Name	OJ991114_46.0419.C2.o2.np	Method	AAT/NAP
Start	2439	End	4518
GI	7500181	Score	102
Exons	2439..2470, 3886..4205, 4246..4518		
GI Descrip.	hypothetical protein F30A10.3 - Caenorhabditis elegans gi|3876555|emb|CAB03023.1| (Z81072) cDNA EST EMBL:Z14598 comes from this gene [Caenorhabditis elegans]		

Seq. No.	53252	Seq. ID	OJ991114_46.0419.C2
Gene No.	112201	Strand	+
Start	2439	End	4518
Name	OJ991114_46.0419.C2.o2.gs	Method	GENSCAN
Start	3632	End	4518
GI	none	Score	.61
Exons	3632..3814, 3874..4518		

Seq. No.	53252	Seq. ID	OJ991114_46.0419.C2
Gene No.	112202	Strand	-
Start	1	End	3135
Name	OJ991114_46.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	3135

GI	5306158	Score	82
Exons	1..72, 1122..1478, 3073..3135		
GI Descrip.	(AF160864) orf1386 [Tetrahymena pyriformis]		

Seq. No.	53252	Seq. ID	OJ991114_46.0419.C2
Gene No.	112203	Strand	
Start	3640	End	4173
Name	OJ991114_46.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	3640	End	4050
GI	none	Score	260
Exons	3640..3858, 3641..3859, 3896..3964, 3901..3972, 3984..4046, 3985..4050		

Seq. No.	53252	Seq. ID	OJ991114_46.0419.C2
Gene No.	112203	Strand	
Start	3640	End	4173
Name	OJ991114_46.0419.C2.o2.ts	Method	TBLASTX:Soybean
Start	3644	End	4035
GI	none	Score	116
Exons	3644..3751, 3652..3741, 3824..3859, 3826..3858, 3896..3964, 3901..3969, 3988..4035		

Seq. No.	53252	Seq. ID	OJ991114_46.0419.C2
Gene No.	112203	Strand	
Start	3640	End	4173
Name	OJ991114_46.0419.C2.o2.tc	Method	TBLASTX:Cress
Start	3665	End	4173
GI	none	Score	97
Exons	3665..3829, 3827..3853, 3899..3964, 3988..4173		

Seq. No.	53252	Seq. ID	OJ991114_46.0419.C2
Gene No.	112204	Strand	
Start	4213	End	4520
Name	OJ991114_46.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	4213	End	4506
GI	none	Score	132
Exons	4213..4323, 4372..4506, 4389..4475		

Seq. No.	53252	Seq. ID	OJ991114_46.0419.C2
Gene No.	112204	Strand	
Start	4213	End	4520
Name	OJ991114_46.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	4228	End	4484
GI	none	Score	106
Exons	4228..4323, 4375..4482, 4389..4484		

Seq. No.	53252	Seq. ID	OJ991114_46.0419.C2
Gene No.	112204	Strand	
Start	4213	End	4520
Name	OJ991114_46.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	4278	End	4520
GI	none	Score	72
Exons	4278..4310, 4279..4323, 4282..4323, 4369..4485, 4369..4503, 4377..4520, 4421..4516		

Seq. No.	53253	Seq. ID	OJ991114_46.0419.C5
Gene No.	112205	Strand	+

Start	3	End	1161
Name	OJ991114_46.0419.C5.o1.gs	Method	GENSCAN
Start	3	End	1161
GI	none	Score	.74
Exons	3..130, 972..1161		

Seq. No.	53254	Seq. ID	OJ991114_46.0419.C6
Gene No.	112206	Strand	-
Start	362	End	2154
Name	OJ991114_46.0419.C6.o1.gs	Method	GENSCAN
Start	362	End	2154
GI	none	Score	.55
Exons	362..513, 862..1059, 1105..1228, 1258..1428, 1624..1720, 1733..2051, 2080..2154		

Seq. No.	53255	Seq. ID	OJ991114_46.0419.C8
Gene No.	112207	Strand	-
Start	1	End	1685
Name	OJ991114_46.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	1685
GI	7444451	Score	1432
Exons	1..1685		
GI Descrip.	probable gag/pol polyprotein - long-staminate rice retrotransposon retrofit gi|2586082|gb|AAB82754.1| (U72725) retrofit [Oryza longistaminata]		

Seq. No.	53255	Seq. ID	OJ991114_46.0419.C8
Gene No.	112207	Strand	-
Start	1	End	1685
Name	OJ991114_46.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	476	End	808
GI	none	Score	130
Exons	476..808, 477..773, 494..775		

Seq. No.	53255	Seq. ID	OJ991114_46.0419.C8
Gene No.	112207	Strand	-
Start	1	End	1685
Name	OJ991114_46.0419.C8.o1.gs	Method	GENSCAN
Start	555	End	1301
GI	none	Score	.47
Exons	555..562, 649..843, 875..1301		

Seq. No.	53255	Seq. ID	OJ991114_46.0419.C8
Gene No.	112207	Strand	-
Start	1	End	1685
Name	OJ991114_46.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	647	End	1169
GI	none	Score	68
Exons	647..769, 647..790, 776..886, 1050..1169		

Seq. No.	53255	Seq. ID	OJ991114_46.0419.C8
Gene No.	112207	Strand	-
Start	1	End	1685
Name	OJ991114_46.0419.C8.o2.tw	Method	TBLASTX:Wheat
Start	1041	End	1340
GI	none	Score	194
Exons	1041..1340		

Seq. No.	53255	Seq. ID	OJ991114_46.0419.C8
Gene No.	112207	Strand	-
Start	1	End	1685
Name	OJ991114_46.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	1170	End	1595
GI	none	Score	64
Exons	1170..1340, 1348..1500, 1473..1595		

Seq. No.	53256	Seq. ID	OJ991114_46.0419.C9
Gene No.	112208	Strand	+
Start	1783	End	3213
Name	OJ991114_46.0419.C9.o2.gs	Method	GENSCAN
Start	1783	End	3213
GI	none	Score	.6
Exons	1783..1785, 2340..2517, 2921..3213		

Seq. No.	53256	Seq. ID	OJ991114_46.0419.C9
Gene No.	112209	Strand	-
Start	52	End	392
Name	OJ991114_46.0419.C9.o1.gs	Method	GENSCAN
Start	52	End	392
GI	none	Score	.79
Exons	52..392		

Seq. No.	53257	Seq. ID	OJ991114_46.0419.C10
Gene No.	112210	Strand	+
Start	254	End	769
Name	OJ991114_46.0419.C10.o1.gs	Method	GENSCAN
Start	254	End	769
GI	none	Score	.77
Exons	254..769		

Seq. No.	53258	Seq. ID	OJ991114_46.0419.C12
Gene No.	112211	Strand	+
Start	1	End	1060
Name	OJ991114_46.0419.C12.o1.gp	Method	AAT/GAP
Start	1	End	1060
GI	15693_1.R1084	Score	592
Exons	1..64, 819..1060		
GI Descrip.	'6009521/dbj|BAA84944.1| 6.0e-68 (AB021491) p100 co-activator [Mus musculus]'		

Seq. No.	53258	Seq. ID	OJ991114_46.0419.C12
Gene No.	112211	Strand	+
Start	1	End	1060
Name	OJ991114_46.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	1	End	1058
GI	none	Score	75
Exons	1..75, 2..67, 819..1058, 821..1057		

Seq. No.	53258	Seq. ID	OJ991114_46.0419.C12
Gene No.	112211	Strand	+
Start	1	End	1060
Name	OJ991114_46.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	1	End	1059
GI	none	Score	104

Exons	1..63, 2..67, 2..79, 819..857, 840..1058, 842..1057, 864..1058, 886..1059		
Seq. No.	53258	Seq. ID	OJ991114_46.0419.C12
Gene No.	112211	Strand	+
Start	1	End	1060
Name	OJ991114_46.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	1060
GI	7512259	Score	73
Exons	1..68, 841..1060		
GI Descrip.	100 kDa coactivator - human gi|799177|gb|AAA80488.1| (U22055) 100 kDa coactivator [Homo sapiens]		

Seq. No.	53258	Seq. ID	OJ991114_46.0419.C12
Gene No.	112211	Strand	+
Start	1	End	1060
Name	OJ991114_46.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	1	End	1058
GI	none	Score	98
Exons	1..63, 2..67, 818..1024, 819..1058		

Seq. No.	53258	Seq. ID	OJ991114_46.0419.C12
Gene No.	112211	Strand	+
Start	1	End	1060
Name	OJ991114_46.0419.C12.o1.gs	Method	GENSCAN
Start	62	End	989
GI	none	Score	.62
Exons	62..64, 819..989		

Seq. No.	53258	Seq. ID	OJ991114_46.0419.C12
Gene No.	112211	Strand	+
Start	1	End	1060
Name	OJ991114_46.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	838	End	1058
GI	none	Score	311
Exons	838..1056, 839..1057, 840..1058		

Seq. No.	53259	Seq. ID	OJ991114_46.0419.C13
Gene No.	112212	Strand	+
Start	526	End	618
Name	OJ991114_46.0419.C13.o1.gs	Method	GENSCAN
Start	526	End	618
GI	none	Score	.67
Exons	526..618		

Seq. No.	53259	Seq. ID	OJ991114_46.0419.C13
Gene No.	112213	Strand	+
Start	1599	End	1937
Name	OJ991114_46.0419.C13.o1.np	Method	AAT/NAP
Start	1599	End	1937
GI	124135	Score	64
Exons	1599..1937		
GI Descrip.	TRANS-ACTING TRANSCRIPTIONAL PROTEIN ICP0 (VMW118 PROTEIN) gi|73650|pir||EDBEXD immediate-early protein RL2 - human herpesvirus 2 (strain HG52) gi|1869822|emb|CAB06760.1| (Z86099) RL2 [human herpesvirus 2] gi|2626942|dbj|BAA23427.1| (D10471) Vmw118(ICP0) [human herpesvirus 2]		

Seq. No.	53260	Seq. ID	OJ991114_46.0419.C14
Gene No.	112214	Strand	+
Start	56	End	129
Name	OJ991114_46.0419.C14.o1.gs	Method	GENSCAN
Start	56	End	129
GI	none	Score	.46
Exons	56..129		

Seq. No.	53260	Seq. ID	OJ991114_46.0419.C14
Gene No.	112215	Strand	+
Start	543	End	810
Name	OJ991114_46.0419.C14.o2.gp	Method	AAT/GAP
Start	543	End	810
GI	LIB3477-003-P1-K1-E9	Score	97
Exons	543..567, 743..810		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	53260	Seq. ID	OJ991114_46.0419.C14
Gene No.	112216	Strand	-
Start	228	End	740
Name	OJ991114_46.0419.C14.o1.gp	Method	AAT/GAP
Start	228	End	740
GI	LIB3432-059-P1-K1-D8	Score	725
Exons	228..274, 325..740		
GI Descrip.	'5734616/dbj|AP000391.1|AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	53261	Seq. ID	OJ991114_46.0419.C16
Gene No.	112217	Strand	+
Start	1229	End	1763
Name	OJ991114_46.0419.C16.o1.gs	Method	GENSCAN
Start	1229	End	1763
GI	none	Score	.88
Exons	1229..1423, 1713..1763		

Seq. No.	53262	Seq. ID	OJ991114_46.0419.C17
Gene No.	112218	Strand	+
Start	112	End	1522
Name	OJ991114_46.0419.C17.o1.gs	Method	GENSCAN
Start	112	End	1522
GI	none	Score	.45
Exons	112..292, 733..758, 1186..1522		

Seq. No.	53263	Seq. ID	OJ991114_46.0419.C19
Gene No.	112219	Strand	+
Start	1516	End	2223
Name	OJ991114_46.0419.C19.o1.gs	Method	GENSCAN
Start	1516	End	2223
GI	none	Score	.6
Exons	1516..1693, 2048..2223		

Seq. No.	53263	Seq. ID	OJ991114_46.0419.C19
Gene No.	112220	Strand	+
Start	2812	End	6938

Name	OJ991114_46.0419.C19.o2.gs	Method	GENSCAN
Start	2812	End	6938
GI	none	Score	.95
Exons	2812..3216, 3604..3714, 3899..3983, 5368..5427, 6637..6938		

Seq. No.	53263	Seq. ID	OJ991114_46.0419.C19
Gene No.	112221	Strand	-
Start	5646	End	6975
Name	OJ991114_46.0419.C19.o1.np	Method	AAT/NAP
Start	5646	End	6975
GI	5042462	Score	89
Exons	5646..5882, 6940..6975		
GI Descrip.	(AC007789) putative negatively light-regulated protein [Oryza sativa]		

Seq. No.	53264	Seq. ID	OJ991114_46.0419.C22
Gene No.	112222	Strand	-
Start	1534	End	1600
Name	OJ991114_46.0419.C22.o1.gs	Method	GENSCAN
Start	1534	End	1600
GI	none	Score	.8
Exons	1534..1600		

Seq. No.	53265	Seq. ID	OJ991114_46.0419.C24
Gene No.	112223	Strand	+
Start	1	End	1067
Name	OJ991114_46.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	1067
GI	1055161	Score	135
Exons	1..85, 214..384, 468..708, 902..1067		
GI Descrip.	(U40029) Contains similarity to Pfam domain: PF00567 (TUDOR), Score=62.7, E-value=2.5e-15, N=1 [Caenorhabditis elegans]		

Seq. No.	53265	Seq. ID	OJ991114_46.0419.C24
Gene No.	112223	Strand	+
Start	1	End	1067
Name	OJ991114_46.0419.C24.o1.tc	Method	TBLASTX:Cress
Start	2	End	1067
GI	none	Score	127
Exons	2..97, 5..97, 202..402, 213..386, 464..631, 486..632, 735..818, 768..833, 812..898, 813..917, 930..1067		

Seq. No.	53265	Seq. ID	OJ991114_46.0419.C24
Gene No.	112223	Strand	+
Start	1	End	1067
Name	OJ991114_46.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	8	End	1067
GI	none	Score	137
Exons	8..97, 8..97, 202..402, 213..386, 223..387, 464..631, 473..628, 486..632, 541..633, 614..664, 631..660, 759..830, 759..812, 767..829, 812..1063, 812..976, 813..1067, 1025..1066		

Seq. No.	53265	Seq. ID	OJ991114_46.0419.C24
Gene No.	112223	Strand	+
Start	1	End	1067
Name	OJ991114_46.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	183	End	610

GI	none	Score	145
Exons	183..389, 192..386, 205..402, 486..608	316..387, 464..610, 476..604,	

Seq. No.	53265	Seq. ID	OJ991114_46.0419.C24
Gene No.	112223	Strand	+
Start	1	End	1067
Name	OJ991114_46.0419.C24.o1.gs	Method	GENSCAN
Start	247	End	1003
GI	none	Score	.8
Exons	247..384, 468..548, 762..1003		

Seq. No.	53265	Seq. ID	OJ991114_46.0419.C24
Gene No.	112223	Strand	+
Start	1	End	1067
Name	OJ991114_46.0419.C24.o2.ts	Method	TBLASTX:Soybean
Start	759	End	1064
GI	none	Score	58
Exons	759..836, 828..905, 867..1064		

Seq. No.	53265	Seq. ID	OJ991114_46.0419.C24
Gene No.	112223	Strand	+
Start	1	End	1067
Name	OJ991114_46.0419.C24.o1.gp	Method	AAT/GAP
Start	915	End	1067
GI	15693_1.R1084	Score	271
Exons	915..1067		
GI Descrip.	'6009521/dbj|BAA84944.1| 6.0e-68 (AB021491) p100 co-activator [Mus musculus]'		

Seq. No.	53266	Seq. ID	OJ991114_46.0419.C26
Gene No.	112224	Strand	-
Start	425	End	640
Name	OJ991114_46.0419.C26.o1.gs	Method	GENSCAN
Start	425	End	640
GI	none	Score	.93
Exons	425..494, 544..640		

Seq. No.	53267	Seq. ID	OJ991114_46.0419.C29
Gene No.	112225	Strand	+
Start	121	End	856
Name	OJ991114_46.0419.C29.o1.gs	Method	GENSCAN
Start	121	End	856
GI	none	Score	.71
Exons	121..166, 735..856		

Seq. No.	53267	Seq. ID	OJ991114_46.0419.C29
Gene No.	112226	Strand	+
Start	1346	End	1510
Name	OJ991114_46.0419.C29.o1.np	Method	AAT/NAP
Start	1346	End	1510
GI	7340884	Score	116
Exons	1346..1510		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	53268	Seq. ID	OJ991114_46.0419.C32

Gene No.	112227	Strand	+
Start	72	End	581
Name	OJ991114_46.0419.C32.o1.gp	Method	AAT/GAP
Start	72	End	581
GI	none	Score	1000
Exons	72..581		

Seq. No.	53269	Seq. ID	OJ991114_46.0419.C36
Gene No.	112228	Strand	+
Start	1	End	2903
Name	OJ991114_46.0419.C36.o1.np	Method	AAT/NAP
Start	1	End	2903
GI	6705984	Score	595
Exons	1..39, 2042..2685, 2874..2903		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	53269	Seq. ID	OJ991114_46.0419.C36
Gene No.	112228	Strand	+
Start	1	End	2903
Name	OJ991114_46.0419.C36.o2.np	Method	AAT/NAP
Start	2064	End	2903
GI	6598452	Score	167
Exons	2064..2353, 2453..2681, 2870..2903		
GI Descrip.	(AC005171) putative retroelement integrase [Arabidopsis thaliana]		

Seq. No.	53269	Seq. ID	OJ991114_46.0419.C36
Gene No.	112228	Strand	+
Start	1	End	2903
Name	OJ991114_46.0419.C36.o2.gp	Method	AAT/GAP
Start	2601	End	2903
GI	LIB3434-048-P1-K1-C8	Score	565
Exons	2601..2903		
GI Descrip.	'4689454/gb|AAD27902.1|AC006267_7 2.0e-17 (AC006267) putative polyprotein [Arabidopsis thaliana]'		

Seq. No.	53269	Seq. ID	OJ991114_46.0419.C36
Gene No.	112229	Strand	-
Start	880	End	1221
Name	OJ991114_46.0419.C36.o1.gs	Method	GENSCAN
Start	880	End	1221
GI	none	Score	.43
Exons	880..1221		

Seq. No.	53269	Seq. ID	OJ991114_46.0419.C36
Gene No.	112230	Strand	-
Start	1200	End	1639
Name	OJ991114_46.0419.C36.o1.gp	Method	AAT/GAP
Start	1200	End	1639
GI	none	Score	825
Exons	1200..1639		

Seq. No.	53269	Seq. ID	OJ991114_46.0419.C36
Gene No.	112231	Strand	
Start	2087	End	2628
Name	OJ991114_46.0419.C36.o1.ts	Method	TBLASTX:Soybean
Start	2087	End	2340

GI	none	Score	104
Exons	2087..2188, 2181..2243, 2245..2340		
Seq. No.	53269	Seq. ID	OJ991114_46.0419.C36
Gene No.	112231	Strand	
Start	2087	End	2628
Name	OJ991114_46.0419.C36.o2.tm	Method	TBLASTX:Maize
Start	2087	End	2358
GI	none	Score	103
Exons	2087..2188, 2181..2243, 2245..2358		
Seq. No.	53269	Seq. ID	OJ991114_46.0419.C36
Gene No.	112231	Strand	
Start	2087	End	2628
Name	OJ991114_46.0419.C36.o1.tw	Method	TBLASTX:Wheat
Start	2239	End	2628
GI	none	Score	75
Exons	2239..2454, 2239..2349, 2353..2403, 2361..2405, 2426..2608, 2442..2624, 2446..2628, 2446..2628		
Seq. No.	53269	Seq. ID	OJ991114_46.0419.C36
Gene No.	112232	Strand	
Start	2690	End	2903
Name	OJ991114_46.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	2690	End	2903
GI	none	Score	255
Exons	2690..2902, 2691..2903		
Seq. No.	53270	Seq. ID	OJ991114_46.0419.C40
Gene No.	112233	Strand	+
Start	130	End	837
Name	OJ991114_46.0419.C40.o1.gs	Method	GENSCAN
Start	130	End	837
GI	none	Score	.76
Exons	130..230, 615..837		
Seq. No.	53271	Seq. ID	OJ991114_46.0419.C44
Gene No.	112234	Strand	-
Start	1	End	1983
Name	OJ991114_46.0419.C44.o1.gp	Method	AAT/GAP
Start	1	End	1404
GI	2310235	Score	303
Exons	1..19, 777..916, 1367..1404		
GI Descrip.	5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		
Seq. No.	53271	Seq. ID	OJ991114_46.0419.C44
Gene No.	112234	Strand	-
Start	1	End	1983
Name	OJ991114_46.0419.C44.o1.np	Method	AAT/NAP
Start	1	End	909
GI	4680203	Score	958
Exons	1..909		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		
Seq. No.	53271	Seq. ID	OJ991114_46.0419.C44
Gene No.	112234	Strand	-

Start	1	End	1983
Name	OJ991114_46.0419.C44.o1.gs	Method	GENSCAN
Start	105	End	1983
GI	none	Score	.72
Exons	105..616, 634..916, 1279..1472, 1892..1983		

Seq. No.	53271	Seq. ID	OJ991114_46.0419.C44
Gene No.	112234	Strand	-
Start	1	End	1983
Name	OJ991114_46.0419.C44.o1.ts	Method	TBLASTX:Soybean
Start	153	End	443
GI	none	Score	105
Exons	153..218, 225..443, 229..435		

Seq. No.	53271	Seq. ID	OJ991114_46.0419.C44
Gene No.	112234	Strand	-
Start	1	End	1983
Name	OJ991114_46.0419.C44.o1.tw	Method	TBLASTX:Wheat
Start	215	End	611
GI	none	Score	189
Exons	215..457, 223..465, 225..476, 226..468, 459..611, 473..535		

Seq. No.	53272	Seq. ID	OJ991114_46.0419.C46
Gene No.	112235	Strand	+
Start	230	End	1127
Name	OJ991114_46.0419.C46.o1.np	Method	AAT/NAP
Start	230	End	1127
GI	7291949	Score	100
Exons	230..460, 802..860, 979..1127		
GI Descrip.	(AE003467) CG7008 gene product [Drosophila melanogaster]		

Seq. No.	53272	Seq. ID	OJ991114_46.0419.C46
Gene No.	112235	Strand	+
Start	230	End	1127
Name	OJ991114_46.0419.C46.o1.tm	Method	TBLASTX:Maize
Start	249	End	1126
GI	none	Score	152
Exons	249..380, 250..381, 378..425, 379..432, 784..861, 785..865, 786..860, 787..867, 954..1085, 960..1121, 976..1122, 976..1122, 977..1126		

Seq. No.	53272	Seq. ID	OJ991114_46.0419.C46
Gene No.	112235	Strand	+
Start	230	End	1127
Name	OJ991114_46.0419.C46.o1.gp	Method	AAT/GAP
Start	258	End	1127
GI	25698_1.R1084	Score	685
Exons	258..426, 786..860, 979..1127		
GI Descrip.	'5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]'		

Seq. No.	53272	Seq. ID	OJ991114_46.0419.C46
Gene No.	112235	Strand	+
Start	230	End	1127
Name	OJ991114_46.0419.C46.o1.gs	Method	GENSCAN
Start	274	End	1092
GI	none	Score	.73

Exons	274..426, 910..1092		
Seq. No.	53272	Seq. ID	OJ991114_46.0419.C46
Gene No.	112235	Strand	+
Start	230	End	1127
Name	OJ991114_46.0419.C46.o1.ts	Method	TBLASTX:Soybean
Start	277	End	1127
GI	none	Score	95
Exons	277..381, 282..365, 375..425, 376..432, 785..865, 786..860, 796..861, 960..1034, 976..1041, 1036..1122, 1044..1127		
Seq. No.	53272	Seq. ID	OJ991114_46.0419.C46
Gene No.	112235	Strand	+
Start	230	End	1127
Name	OJ991114_46.0419.C46.o1.tc	Method	TBLASTX:Cress
Start	300	End	1107
GI	none	Score	82
Exons	300..383, 301..384, 357..422, 376..432, 782..865, 786..860, 806..862, 976..1023, 977..1024, 1008..1061, 1015..1089, 1018..1107		
Seq. No.	53273	Seq. ID	OJ991114_35.0419.C1
Gene No.	112236	Strand	-
Start	1258	End	1705
Name	OJ991114_35.0419.C1.o1.gp	Method	AAT/GAP
Start	1258	End	1705
GI	16996_2.R1084	Score	534
Exons	1258..1460, 1617..1705		
GI Descrip.	'2407800/emb|CAA73155| 5.0e-53 (Y12575) histone H2A.F/Z [Arabidopsis thaliana]'		
Seq. No.	53273	Seq. ID	OJ991114_35.0419.C1
Gene No.	112237	Strand	-
Start	3471	End	4203
Name	OJ991114_35.0419.C1.o2.gs	Method	GENSCAN
Start	3471	End	4203
GI	none	Score	.87
Exons	3471..3484, 4200..4203		
Seq. No.	53274	Seq. ID	OJ991114_35.0419.C2
Gene No.	112238	Strand	+
Start	10067	End	10575
Name	OJ991114_35.0419.C2.o3.gs	Method	GENSCAN
Start	10067	End	10575
GI	none	Score	.52
Exons	10067..10195, 10438..10575		
Seq. No.	53274	Seq. ID	OJ991114_35.0419.C2
Gene No.	112239	Strand	-
Start	3959	End	9640
Name	OJ991114_35.0419.C2.o2.gs	Method	GENSCAN
Start	3959	End	9640
GI	none	Score	.63
Exons	3959..4083, 4181..4307, 5070..5207, 6082..8055, 8167..8194, 9462..9640		
Seq. No.	53274	Seq. ID	OJ991114_35.0419.C2

Gene No.	112239	Strand	-
Start	3959	End	9640
Name	OJ991114_35.0419.C2.o1.np	Method	AAT/NAP
Start	6030	End	8884
GI	6175175	Score	1306
Exons	6030..7835, 8839..8884		
GI Descrip.	(AC011437) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53274	Seq. ID	OJ991114_35.0419.C2
Gene No.	112239	Strand	-
Start	3959	End	9640
Name	OJ991114_35.0419.C2.o1.gp	Method	AAT/GAP
Start	6588	End	7048
GI	uC-osrocyp011d08b1	Score	915
Exons	6588..7048		
GI Descrip.	'4544450/gb|AAD22358.1|AC006592_15 1.0e-22 (AC006592) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	53274	Seq. ID	OJ991114_35.0419.C2
Gene No.	112240	Strand	-
Start	10927	End	14952
Name	OJ991114_35.0419.C2.o2.tc	Method	TBLASTX:Cress
Start	5947	End	6354
GI	none	Score	45
Exons	5947..6138, 6037..6354, 6236..6340		

Seq. No.	53274	Seq. ID	OJ991114_35.0419.C2
Gene No.	112240	Strand	-
Start	10927	End	14952
Name	OJ991114_35.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	6037	End	7404
GI	none	Score	112
Exons	6037..6810, 6377..6634, 6386..6451, 6445..6771, 6446..6787, 6478..6906, 6661..6945, 6715..6942, 6736..6942, 6739..6882, 6751..6987, 6877..6951, 6883..7044, 6910..7056, 6919..7056, 7060..7404, 7072..7266, 7087..7161, 7127..7387		

Seq. No.	53274	Seq. ID	OJ991114_35.0419.C2
Gene No.	112240	Strand	-
Start	10927	End	14952
Name	OJ991114_35.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	6178	End	7047
GI	none	Score	130
Exons	6178..6327, 6329..6637, 6331..6801, 6364..6510, 6910..7047		

Seq. No.	53274	Seq. ID	OJ991114_35.0419.C2
Gene No.	112240	Strand	-
Start	10927	End	14952
Name	OJ991114_35.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	6235	End	6888
GI	none	Score	120
Exons	6235..6567, 6235..6564, 6661..6888		

Seq. No.	53274	Seq. ID	OJ991114_35.0419.C2
Gene No.	112240	Strand	-
Start	10927	End	14952
Name	OJ991114_35.0419.C2.o1.tc	Method	TBLASTX:Cress

Start	6355	End	7047
GI	none	Score	92
Exons	6355..6462, 6379..6594, 6461..6655, 6463..7047, 6478..6759		

Seq. No.	53274	Seq. ID	OJ991114_35.0419.C2
Gene No.	112240	Strand	-
Start	10927	End	14952
Name	OJ991114_35.0419.C2.o4.gs	Method	GENSCAN
Start	10927	End	14952
GI	none	Score	.55
Exons	10927..10992, 11086..11178, 11384..11649, 13241..13500, 14885..14952		

Seq. No.	53275	Seq. ID	OJ991114_35.0419.C3
Gene No.	112241	Strand	-
Start	289	End	765
Name	OJ991114_35.0419.C3.o1.gp	Method	AAT/GAP
Start	289	End	463
GI	2799896	Score	244
Exons	289..463		

Seq. No.	53275	Seq. ID	OJ991114_35.0419.C3
Gene No.	112241	Strand	-
Start	289	End	765
Name	OJ991114_35.0419.C3.o1.gs	Method	GENSCAN
Start	289	End	765
GI	none	Score	.55
Exons	289..765		

Seq. No.	53276	Seq. ID	OJ991114_35.0419.C4
Gene No.	112242	Strand	+
Start	2585	End	4622
Name	OJ991114_35.0419.C4.o1.np	Method	AAT/NAP
Start	2585	End	4622
GI	3915029	Score	466
Exons	2585..2727, 3597..3797, 3831..4307, 4600..4622		
GI Descrip.	ACYL-[ACYL-CARRIER PROTEIN] DESATURASE PRECURSOR (STEAROYL-ACP DESATURASE) gi|976257|dbj|BAA07631| (D38753) stearyl-ACP desaturase [Oryza sativa]		

Seq. No.	53276	Seq. ID	OJ991114_35.0419.C4
Gene No.	112243	Strand	-
Start	140	End	706
Name	OJ991114_35.0419.C4.o1.gp	Method	AAT/GAP
Start	140	End	706
GI	4715712	Score	1109
Exons	140..706		

Seq. No.	53276	Seq. ID	OJ991114_35.0419.C4
Gene No.	112244	Strand	
Start	3607	End	4422
Name	OJ991114_35.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	3607	End	4422
GI	none	Score	103
Exons	3607..3741, 3844..4164, 3846..4163, 4175..4249, 4176..4253, 4258..4299, 4351..4422		

Seq. No.	53276	Seq. ID	OJ991114_35.0419.C4
Gene No.	112244	Strand	
Start	3607	End	4422
Name	OJ991114_35.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	3634	End	4253
GI	none	Score	93
Exons	3634..3741, 3844..4164, 3846..4163, 4175..4249, 4176..4253		

Seq. No.	53276	Seq. ID	OJ991114_35.0419.C4
Gene No.	112244	Strand	
Start	3607	End	4422
Name	OJ991114_35.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	3640	End	4253
GI	none	Score	90
Exons	3640..3741, 3843..4148, 3844..4164, 4176..4253		

Seq. No.	53277	Seq. ID	OJ991114_35.0419.C6
Gene No.	112245	Strand	-
Start	973	End	1965
Name	OJ991114_35.0419.C6.o1.gs	Method	GENSCAN
Start	973	End	1964
GI	none	Score	.91
Exons	973..1236, 1529..1651, 1836..1964		

Seq. No.	53277	Seq. ID	OJ991114_35.0419.C6
Gene No.	112245	Strand	-
Start	973	End	1965
Name	OJ991114_35.0419.C6.o1.np	Method	AAT/NAP
Start	1012	End	1964
GI	3056589	Score	277
Exons	1012..1236, 1529..1651, 1836..1964		
GI Descrip.	(AC004255) T1F9.10 [Arabidopsis thaliana]		

Seq. No.	53277	Seq. ID	OJ991114_35.0419.C6
Gene No.	112245	Strand	-
Start	973	End	1965
Name	OJ991114_35.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	1564	End	1965
GI	none	Score	149
Exons	1564..1656, 1566..1655, 1567..1656, 1800..1964, 1816..1965		

Seq. No.	53278	Seq. ID	OJ991114_35.0419.C7
Gene No.	112246	Strand	
Start	272	End	581
Name	OJ991114_35.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	272	End	509
GI	none	Score	115
Exons	272..496, 285..509		

Seq. No.	53278	Seq. ID	OJ991114_35.0419.C7
Gene No.	112246	Strand	
Start	272	End	581
Name	OJ991114_35.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	272	End	581
GI	none	Score	249
Exons	272..496, 273..536, 489..581, 515..580		

Seq. No.	53278	Seq. ID	OJ991114_35.0419.C7
Gene No.	112246	Strand	
Start	272	End	581
Name	OJ991114_35.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	335	End	506
GI	none	Score	110
Exons	335..496, 369..506		

Seq. No.	53279	Seq. ID	OJ991114_35.0419.C8
Gene No.	112247	Strand	+
Start	1921	End	2254
Name	OJ991114_35.0419.C8.o1.gp	Method	AAT/GAP
Start	1921	End	2254
GI	2798412	Score	599
Exons	1921..2254		
GI Descrip.	4760545/dbj|BAA77333.1| 1.0e-10 (AB019492) IDN4-GGTR14 [Homo sapiens]		

Seq. No.	53279	Seq. ID	OJ991114_35.0419.C8
Gene No.	112248	Strand	-
Start	782	End	1207
Name	OJ991114_35.0419.C8.o1.gs	Method	GENSCAN
Start	782	End	1207
GI	none	Score	.83
Exons	782..1207		

Seq. No.	53279	Seq. ID	OJ991114_35.0419.C8
Gene No.	112249	Strand	-
Start	2044	End	11892
Name	OJ991114_35.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	1972	End	2674
GI	none	Score	316
Exons	1972..1995, 2005..2313, 2021..2293, 2032..2304, 2296..2388, 2300..2386, 2302..2388, 2434..2673, 2459..2674, 2460..2672		

Seq. No.	53279	Seq. ID	OJ991114_35.0419.C8
Gene No.	112249	Strand	-
Start	2044	End	11892
Name	OJ991114_35.0419.C8.o2.gs	Method	GENSCAN
Start	2044	End	11892
GI	none	Score	.78
Exons	2044..2370, 2460..2672, 2826..3177, 3747..3823, 4302..4844, 4929..5129, 6413..6627, 6755..7155, 8181..8277, 8347..8413, 8872..9107, 9382..9448, 9880..9963, 10534..10752, 11665..11892		

Seq. No.	53279	Seq. ID	OJ991114_35.0419.C8
Gene No.	112249	Strand	-
Start	2044	End	11892
Name	OJ991114_35.0419.C8.o1.np	Method	AAT/NAP
Start	2053	End	5812
GI	7293088	Score	321
Exons	2053..2370, 2460..2672, 2826..3154, 5776..5812		
GI Descrip.	(AE003499) CG9213 gene product [Drosophila melanogaster]		

Seq. No.	53279	Seq. ID	OJ991114_35.0419.C8
Gene No.	112249	Strand	-
Start	2044	End	11892

Name	OJ991114_35.0419.C8.o2.ts	Method	TBLASTX:Soybean
Start	2098	End	2480
GI	none	Score	109
Exons	2098..2283, 2147..2278, 2161..2328, 2168..2290, 2304..2372, 2310..2372, 2311..2373, 2311..2388, 2460..2480		

Seq. No.	53279	Seq. ID	OJ991114_35.0419.C8
Gene No.	112249	Strand	-
Start	2044	End	11892
Name	OJ991114_35.0419.C8.o5.tm	Method	TBLASTX:Maize
Start	2985	End	4565
GI	none	Score	205
Exons	2985..3179, 2985..3179, 3767..3823, 4291..4422, 4302..4430, 4303..4464, 4432..4521, 4446..4565, 4448..4564, 4449..4565		

Seq. No.	53279	Seq. ID	OJ991114_35.0419.C8
Gene No.	112249	Strand	-
Start	2044	End	11892
Name	OJ991114_35.0419.C8.o3.tm	Method	TBLASTX:Maize
Start	4566	End	6538
GI	none	Score	74
Exons	4566..4646, 4566..4721, 4571..4690, 4629..4844, 4684..4845, 4714..4845, 4916..5113, 4926..5132, 4927..5115, 4929..5117, 6413..6538, 6428..6529		

Seq. No.	53279	Seq. ID	OJ991114_35.0419.C8
Gene No.	112249	Strand	-
Start	2044	End	11892
Name	OJ991114_35.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	4620	End	6532
GI	none	Score	61
Exons	4620..4706, 4698..4844, 4735..4845, 4926..5126, 4927..5037, 4944..5126, 5062..5127, 5068..5127, 6482..6532		

Seq. No.	53279	Seq. ID	OJ991114_35.0419.C8
Gene No.	112249	Strand	-
Start	2044	End	11892
Name	OJ991114_35.0419.C8.o2.gp	Method	AAT/GAP
Start	4663	End	6512
GI	none	Score	857
Exons	4663..4844, 4929..5129, 6413..6512		

Seq. No.	53279	Seq. ID	OJ991114_35.0419.C8
Gene No.	112249	Strand	-
Start	2044	End	11892
Name	OJ991114_35.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	8307	End	10717
GI	none	Score	83
Exons	8307..8414, 8324..8419, 8339..8419, 8859..9110, 8859..9098, 8866..9129, 8870..9127, 9167..9277, 9178..9288, 9181..9288, 9183..9293, 9183..9290, 9879..9965, 9880..9966, 9881..9964, 10533..10712, 10534..10716, 10535..10717		

Seq. No.	53279	Seq. ID	OJ991114_35.0419.C8
Gene No.	112249	Strand	-
Start	2044	End	11892
Name	OJ991114_35.0419.C8.o2.np	Method	AAT/NAP

Start	8316	End	11875
GI	6523417	Score	1200
Exons	8316..8413, 8872..9114, 9189..9287, 9880..9961, 10529..10752, 10902..11069, 11665..11875		
GI Descrip.	(AJ242017) deoxyhypusine synthase [Nicotiana tabacum]		

Seq. No.	53279	Seq. ID	OJ991114_35.0419.C8
Gene No.	112249	Strand	-
Start	2044	End	11892
Name	OJ991114_35.0419.C8.o4.ts	Method	TBLASTX:Soybean
Start	9043	End	9930
GI	none	Score	75
Exons	9043..9129, 9044..9127, 9204..9332, 9205..9288, 9880..9930		

Seq. No.	53279	Seq. ID	OJ991114_35.0419.C8
Gene No.	112249	Strand	-
Start	2044	End	11892
Name	OJ991114_35.0419.C8.o3.ts	Method	TBLASTX:Soybean
Start	10670	End	11746
GI	none	Score	102
Exons	10670..10753, 10672..10752, 10887..11069, 10899..11069, 10900..11070, 11647..11721, 11663..11746		

Seq. No.	53279	Seq. ID	OJ991114_35.0419.C8
Gene No.	112249	Strand	-
Start	2044	End	11892
Name	OJ991114_35.0419.C8.o4.tm	Method	TBLASTX:Maize
Start	10893	End	11884
GI	none	Score	184
Exons	10893..11069, 10899..11069, 10900..11073, 10901..11074, 11644..11883, 11645..11884		

Seq. No.	53280	Seq. ID	OJ991114_35.0419.C9
Gene No.	112250	Strand	+
Start	3206	End	8768
Name	OJ991114_35.0419.C9.o1.gp	Method	AAT/GAP
Start	3206	End	3662
GI	LIB3432-059-P1-K1-D8	Score	730
Exons	3206..3662		
GI Descrip.	'5734616/dbj|AP000391.1|AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	53280	Seq. ID	OJ991114_35.0419.C9
Gene No.	112250	Strand	+
Start	3206	End	8768
Name	OJ991114_35.0419.C9.o1.np	Method	AAT/NAP
Start	3437	End	8768
GI	6069646	Score	1055
Exons	3437..3474, 6696..7502, 7785..8768		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	53280	Seq. ID	OJ991114_35.0419.C9
Gene No.	112250	Strand	+

Start	3206	End	8768
Name	OJ991114_35.0419.C9.o2.gs	Method	GENSCAN
Start	5412	End	8252
GI	none	Score	.74
Exons	5412..7027, 7196..7688, 7812..8252		

Seq. No.	53280	Seq. ID	OJ991114_35.0419.C9
Gene No.	112251	Strand	-
Start	9869	End	10401
Name	OJ991114_35.0419.C9.o6.tm	Method	TBLASTX:Maize
Start	5625	End	5858
GI	none	Score	148
Exons	5625..5765, 5628..5714, 5769..5852, 5769..5858		

Seq. No.	53280	Seq. ID	OJ991114_35.0419.C9
Gene No.	112251	Strand	-
Start	9869	End	10401
Name	OJ991114_35.0419.C9.o4.tw	Method	TBLASTX:Wheat
Start	5712	End	8785
GI	none	Score	187
Exons	5712..6092, 8681..8785		

Seq. No.	53280	Seq. ID	OJ991114_35.0419.C9
Gene No.	112251	Strand	-
Start	9869	End	10401
Name	OJ991114_35.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	6087	End	6521
GI	none	Score	336
Exons	6087..6521, 6137..6376		

Seq. No.	53280	Seq. ID	OJ991114_35.0419.C9
Gene No.	112251	Strand	-
Start	9869	End	10401
Name	OJ991114_35.0419.C9.o4.tm	Method	TBLASTX:Maize
Start	6684	End	7028
GI	none	Score	71
Exons	6684..6764, 6695..7027, 6828..7028		

Seq. No.	53280	Seq. ID	OJ991114_35.0419.C9
Gene No.	112251	Strand	-
Start	9869	End	10401
Name	OJ991114_35.0419.C9.o3.tw	Method	TBLASTX:Wheat
Start	6918	End	7232
GI	none	Score	194
Exons	6918..7232		

Seq. No.	53280	Seq. ID	OJ991114_35.0419.C9
Gene No.	112251	Strand	-
Start	9869	End	10401
Name	OJ991114_35.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	7029	End	7715
GI	none	Score	496
Exons	7029..7715, 7274..7426, 7460..7714		

Seq. No.	53280	Seq. ID	OJ991114_35.0419.C9
Gene No.	112251	Strand	-
Start	9869	End	10401

Name	OJ991114_35.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	7356	End	7796
GI	none	Score	220
Exons	7356..7658, 7358..7648, 7665..7796		

Seq. No.	53280	Seq. ID	OJ991114_35.0419.C9
Gene No.	112251	Strand	-
Start	9869	End	10401
Name	OJ991114_35.0419.C9.o5.tm	Method	TBLASTX:Maize
Start	7775	End	8066
GI	none	Score	178
Exons	7775..7951, 7785..7952, 7965..8066		

Seq. No.	53280	Seq. ID	OJ991114_35.0419.C9
Gene No.	112251	Strand	-
Start	9869	End	10401
Name	OJ991114_35.0419.C9.o2.tw	Method	TBLASTX:Wheat
Start	7959	End	8339
GI	none	Score	200
Exons	7959..8339		

Seq. No.	53280	Seq. ID	OJ991114_35.0419.C9
Gene No.	112251	Strand	-
Start	9869	End	10401
Name	OJ991114_35.0419.C9.o3.tm	Method	TBLASTX:Maize
Start	8199	End	8762
GI	none	Score	69
Exons	8199..8261, 8285..8389, 8289..8522, 8538..8762		

Seq. No.	53280	Seq. ID	OJ991114_35.0419.C9
Gene No.	112251	Strand	-
Start	9869	End	10401
Name	OJ991114_35.0419.C9.o3.gs	Method	GENSCAN
Start	9869	End	10401
GI	none	Score	.46
Exons	9869..9875, 10286..10401		

Seq. No.	53281	Seq. ID	OJ991114_35.0419.C10
Gene No.	112252	Strand	+
Start	3825	End	4206
Name	OJ991114_35.0419.C10.o2.gs	Method	GENSCAN
Start	3825	End	4206
GI	none	Score	.66
Exons	3825..4051, 4074..4206		

Seq. No.	53282	Seq. ID	OJ991114_35.0419.C11
Gene No.	112253	Strand	-
Start	297	End	1976
Name	OJ991114_35.0419.C11.o1.np	Method	AAT/NAP
Start	297	End	1976
GI	6539588	Score	313
Exons	297..337, 1662..1976		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	53283	Seq. ID	OJ991114_35.0419.C12
Gene No.	112254	Strand	+
Start	273	End	2784

Name	OJ991114_35.0419.C12.o1.np	Method	AAT/NAP
Start	273	End	2784
GI	7340909	Score	164
Exons	273..292, 2330..2784		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	53283	Seq. ID	OJ991114_35.0419.C12
Gene No.	112254	Strand	+
Start	273	End	2784
Name	OJ991114_35.0419.C12.o1.gs	Method	GENSCAN
Start	949	End	1575
GI	none	Score	.99
Exons	949..1575		

Seq. No.	53283	Seq. ID	OJ991114_35.0419.C12
Gene No.	112255	Strand	-
Start	2542	End	3579
Name	OJ991114_35.0419.C12.o2.gs	Method	GENSCAN
Start	2542	End	3579
GI	none	Score	.54
Exons	2542..2727, 3020..3090, 3154..3441, 3567..3579		

Seq. No.	53283	Seq. ID	OJ991114_35.0419.C12
Gene No.	112255	Strand	-
Start	2542	End	3579
Name	OJ991114_35.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	2981	End	3091
GI	none	Score	150
Exons	2981..3091, 2986..3090, 2987..3091		

Seq. No.	53283	Seq. ID	OJ991114_35.0419.C12
Gene No.	112255	Strand	-
Start	2542	End	3579
Name	OJ991114_35.0419.C12.o1.gp	Method	AAT/GAP
Start	2982	End	3090
GI	184_1.R1084	Score	163
Exons	2982..3090		
GI Descrip.	'5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	53284	Seq. ID	OJ991114_35.0419.C13
Gene No.	112256	Strand	-
Start	1	End	1316
Name	OJ991114_35.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	1316
GI	7340909	Score	134
Exons	1..34, 128..424, 1219..1316		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	53284	Seq. ID	OJ991114_35.0419.C13
Gene No.	112256	Strand	-
Start	1	End	1316
Name	OJ991114_35.0419.C13.o2.np	Method	AAT/NAP
Start	1	End	1316
GI	5922635	Score	97
Exons	1..22, 822..1011, 1267..1316		

GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016868|dbj|BAA85211.1| (AP000570) hypothetical protein [Oryza sativa]		
Seq. No.	53285	Seq. ID	OJ991114_35.0419.C14
Gene No.	112257	Strand	+
Start	1	End	2310
Name	OJ991114_35.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	2310
GI	7228438	Score	2048
Exons	1..23, 468..581, 666..1074, 1166..1465, 1542..1800, 1893..2075, 2233..2310		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		
Seq. No.	53285	Seq. ID	OJ991114_35.0419.C14
Gene No.	112257	Strand	+
Start	1	End	2310
Name	OJ991114_35.0419.C14.o1.gs	Method	GENSCAN
Start	61	End	2298
GI	none	Score	.7
Exons	61..139, 245..491, 955..1074, 1166..1257, 1542..1800, 1893..2013, 2045..2142, 2233..2298		
Seq. No.	53285	Seq. ID	OJ991114_35.0419.C14
Gene No.	112257	Strand	+
Start	1	End	2310
Name	OJ991114_35.0419.C14.o1.gp	Method	AAT/GAP
Start	1292	End	1792
GI	LIB3475-007-P1-K1-G8	Score	787
Exons	1292..1465, 1542..1792		
GI Descrip.	'5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		
Seq. No.	53286	Seq. ID	OJ991114_35.0419.C15
Gene No.	112258	Strand	+
Start	1	End	1122
Name	OJ991114_35.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	545
GI	5441880	Score	563
Exons	1..195, 311..545		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		
Seq. No.	53286	Seq. ID	OJ991114_35.0419.C15
Gene No.	112258	Strand	+
Start	1	End	1122
Name	OJ991114_35.0419.C15.o2.np	Method	AAT/NAP
Start	1	End	848
GI	7228442	Score	246
Exons	1..33, 664..848		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	53286	Seq. ID	OJ991114_35.0419.C15
Gene No.	112258	Strand	+
Start	1	End	1122
Name	OJ991114_35.0419.C15.o1.gs	Method	GENSCAN
Start	64	End	824
GI	none	Score	.72
Exons	64..195, 259..306, 311..528, 664..824		

Seq. No.	53286	Seq. ID	OJ991114_35.0419.C15
Gene No.	112258	Strand	+
Start	1	End	1122
Name	OJ991114_35.0419.C15.o1.gp	Method	AAT/GAP
Start	649	End	1122
GI	LIB3431-045-P1-N1-A10	Score	810
Exons	649..986, 1007..1122		
GI Descrip.	'5441876/dbj|AP000367.1|AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	53286	Seq. ID	OJ991114_35.0419.C15
Gene No.	112259	Strand	+
Start	9146	End	11122
Name	OJ991114_35.0419.C15.o3.np	Method	AAT/NAP
Start	9146	End	11121
GI	6587806	Score	160
Exons	9146..9245, 10429..10649, 11087..11121		
GI Descrip.	(AC010924) Contains similarity to gb|M82916 MRS2 protein from Saccharomyces cerivisae. ESTs gb|N96043, gb|AI998651, gb|AA585850, gb|T42027 come from this gene. [Arabidopsis thaliana]		

Seq. No.	53286	Seq. ID	OJ991114_35.0419.C15
Gene No.	112259	Strand	+
Start	9146	End	11122
Name	OJ991114_35.0419.C15.o4.gs	Method	GENSCAN
Start	10392	End	10795
GI	none	Score	.83
Exons	10392..10795		

Seq. No.	53286	Seq. ID	OJ991114_35.0419.C15
Gene No.	112259	Strand	+
Start	9146	End	11122
Name	OJ991114_35.0419.C15.o4.gp	Method	AAT/GAP
Start	10414	End	11122
GI	21839_1.R1084	Score	458
Exons	10414..10649, 11087..11122		
GI Descrip.	'4406759/gb|AAD20070| 9.0e-33 (AC006836) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	53286	Seq. ID	OJ991114_35.0419.C15
Gene No.	112260	Strand	-
Start	4423	End	4494
Name	OJ991114_35.0419.C15.o2.gp	Method	AAT/GAP
Start	4423	End	4494
GI	LIB3477-003-P1-K1-E9	Score	87
Exons	4423..4494		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY		

S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'

Seq. No.	53286	Seq. ID	OJ991114_35.0419.C15
Gene No.	112261	Strand	
Start	10458	End	10649
Name	OJ991114_35.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	10458	End	10649
GI	none	Score	188
Exons	10458..10649		

Seq. No.	53286	Seq. ID	OJ991114_35.0419.C15
Gene No.	112261	Strand	
Start	10458	End	10649
Name	OJ991114_35.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	10458	End	10649
GI	none	Score	299
Exons	10458..10649, 10485..10649		

Seq. No.	53286	Seq. ID	OJ991114_35.0419.C15
Gene No.	112261	Strand	
Start	10458	End	10649
Name	OJ991114_35.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	10458	End	10649
GI	none	Score	236
Exons	10458..10649		

Seq. No.	53287	Seq. ID	OJ991114_35.0419.C16
Gene No.	112262	Strand	+
Start	193	End	3964
Name	OJ991114_35.0419.C16.o1.np	Method	AAT/NAP
Start	193	End	3816
GI	6503302	Score	292
Exons	193..301, 439..517, 1208..1326, 2079..2153, 2598..2945, 3100..3144, 3225..3254, 3526..3645, 3733..3816		
GI Descrip.	(AC011713) Is a member of PF|01544 CorA-like Mg2+ transporter protein family. ESTs gb|Z48392 and gb|Z48391 come from this gene. [Arabidopsis thaliana]		

Seq. No.	53287	Seq. ID	OJ991114_35.0419.C16
Gene No.	112262	Strand	+
Start	193	End	3964
Name	OJ991114_35.0419.C16.o1.gp	Method	AAT/GAP
Start	207	End	2139
GI	21839_1.R1084	Score	528
Exons	207..323, 1205..1326, 2079..2139		
GI Descrip.	'4406759/gb|AAD20070| 9.0e-33 (AC006836) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	53287	Seq. ID	OJ991114_35.0419.C16
Gene No.	112262	Strand	+
Start	193	End	3964
Name	OJ991114_35.0419.C16.o1.gs	Method	GENSCAN
Start	209	End	3819
GI	none	Score	.94
Exons	209..323, 1205..1326, 2079..2153, 2598..2825, 2901..2945, 3100..3144, 3526..3645, 3733..3819		

Seq. No.	53287	Seq. ID	OJ991114_35.0419.C16
Gene No.	112262	Strand	+
Start	193	End	3964
Name	OJ991114_35.0419.C16.o2.gp	Method	AAT/GAP
Start	2802	End	3964
GI	53179_1.R1084	Score	839
Exons	2802..2825, 2901..2945, 3100..3144, 3225..3254, 3526..3645, 3733..3964		
GI Descrip.	'4406759/gb|AAD20070| 6.0e-24 (AC006836) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	53287	Seq. ID	OJ991114_35.0419.C16
Gene No.	112263	Strand	+
Start	7800	End	8177
Name	OJ991114_35.0419.C16.o3.gs	Method	GENSCAN
Start	7800	End	8177
GI	none	Score	.72
Exons	7800..8177		

Seq. No.	53287	Seq. ID	OJ991114_35.0419.C16
Gene No.	112264	Strand	-
Start	5152	End	11941
Name	OJ991114_35.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	2045	End	3935
GI	none	Score	122
Exons	2045..2179, 2064..2156, 2590..2826, 2590..2826, 2597..2833, 2895..2948, 2895..2945, 2899..2949, 2900..2950, 3089..3142, 3091..3147, 3219..3257, 3224..3256, 3520..3648, 3522..3659, 3525..3647, 3732..3830, 3733..3819, 3822..3857, 3882..3935, 3884..3934		

Seq. No.	53287	Seq. ID	OJ991114_35.0419.C16
Gene No.	112264	Strand	-
Start	5152	End	11941
Name	OJ991114_35.0419.C16.o2.ts	Method	TBLASTX:Soybean
Start	2601	End	3257
GI	none	Score	77
Exons	2601..2678, 2602..2667, 2672..2776, 2688..2825, 2689..2829, 2709..2798, 2895..2948, 2906..2947, 3091..3147, 3100..3144, 3219..3257, 3224..3253		

Seq. No.	53287	Seq. ID	OJ991114_35.0419.C16
Gene No.	112264	Strand	-
Start	5152	End	11941
Name	OJ991114_35.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	3487	End	3825
GI	none	Score	210
Exons	3487..3648, 3519..3647, 3733..3825		

Seq. No.	53287	Seq. ID	OJ991114_35.0419.C16
Gene No.	112264	Strand	-
Start	5152	End	11941
Name	OJ991114_35.0419.C16.o2.gs	Method	GENSCAN
Start	5152	End	6245
GI	none	Score	.82
Exons	5152..5205, 5686..5805, 5947..6102, 6192..6245		

Seq. No.	53287	Seq. ID	OJ991114_35.0419.C16
Gene No.	112264	Strand	-
Start	5152	End	11941
Name	OJ991114_35.0419.C16.o2.np	Method	AAT/NAP
Start	5492	End	8869
GI	7489084	Score	244
Exons	5492..5526, 8272..8869		
GI Descrip.	disease resistance protein Cf-2.2 - currant tomato gi|1184077|gb|AAC15780.1| (U42445) Cf-2.2 [Lycopersicon pimpinellifolium]		

Seq. No.	53287	Seq. ID	OJ991114_35.0419.C16
Gene No.	112264	Strand	-
Start	5152	End	11941
Name	OJ991114_35.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	7745	End	7985
GI	none	Score	81
Exons	7745..7864, 7757..7834, 7759..7851, 7785..7865, 7854..7985, 7859..7972, 7864..7983		

Seq. No.	53287	Seq. ID	OJ991114_35.0419.C16
Gene No.	112264	Strand	-
Start	5152	End	11941
Name	OJ991114_35.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	8243	End	8759
GI	none	Score	65
Exons	8243..8497, 8279..8581, 8282..8548, 8304..8498, 8354..8554, 8408..8587, 8408..8521, 8619..8750, 8637..8759, 8637..8756		

Seq. No.	53287	Seq. ID	OJ991114_35.0419.C16
Gene No.	112264	Strand	-
Start	5152	End	11941
Name	OJ991114_35.0419.C16.o2.tc	Method	TBLASTX:Cress
Start	8276	End	8810
GI	none	Score	42
Exons	8276..8449, 8276..8545, 8276..8476, 8276..8587, 8279..8548, 8282..8581, 8354..8581, 8357..8587, 8498..8587, 8613..8756, 8616..8762, 8616..8756, 8619..8756, 8646..8753, 8766..8810		

Seq. No.	53287	Seq. ID	OJ991114_35.0419.C16
Gene No.	112264	Strand	-
Start	5152	End	11941
Name	OJ991114_35.0419.C16.o3.tm	Method	TBLASTX:Maize
Start	8276	End	8822
GI	none	Score	42
Exons	8276..8449, 8279..8524, 8312..8581, 8312..8512, 8462..8581, 8478..8582, 8607..8822, 8607..8756, 8626..8751, 8646..8732		

Seq. No.	53287	Seq. ID	OJ991114_35.0419.C16
Gene No.	112264	Strand	-
Start	5152	End	11941
Name	OJ991114_35.0419.C16.o4.gs	Method	GENSCAN
Start	8376	End	11941
GI	none	Score	.45
Exons	8376..8953, 9208..9322, 9493..9669, 9708..9884, 11759..11941		

Seq. No.	53288	Seq. ID	OJ991114_35.0419.C17
Gene No.	112265	Strand	-
Start	165	End	235
Name	OJ991114_35.0419.C17.o1.gs	Method	GENSCAN
Start	165	End	235
GI	none	Score	.48
Exons	165..235		

Seq. No.	53289	Seq. ID	OJ991114_35.0419.C18
Gene No.	112266	Strand	+
Start	2966	End	3128
Name	OJ991114_35.0419.C18.o2.gp	Method	AAT/GAP
Start	2966	End	3128
GI	7406_1.R1084	Score	213
Exons	2966..3128		
GI Descrip.	'1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	53289	Seq. ID	OJ991114_35.0419.C18
Gene No.	112267	Strand	+
Start	4585	End	4698
Name	OJ991114_35.0419.C18.o3.gp	Method	AAT/GAP
Start	4585	End	4698
GI	5003562	Score	224
Exons	4585..4698		

Seq. No.	53289	Seq. ID	OJ991114_35.0419.C18
Gene No.	112268	Strand	-
Start	1	End	2527
Name	OJ991114_35.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	2527
GI	7228442	Score	4419
Exons	1..2527		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	53289	Seq. ID	OJ991114_35.0419.C18
Gene No.	112268	Strand	-
Start	1	End	2527
Name	OJ991114_35.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	839	End	1219
GI	none	Score	80
Exons	839..1015, 900..992, 1013..1210, 1025..1219		

Seq. No.	53289	Seq. ID	OJ991114_35.0419.C18
Gene No.	112268	Strand	-
Start	1	End	2527
Name	OJ991114_35.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	917	End	1513
GI	none	Score	154
Exons	917..1012, 1052..1351, 1113..1334, 1385..1513, 1407..1505		

Seq. No.	53289	Seq. ID	OJ991114_35.0419.C18
Gene No.	112268	Strand	-
Start	1	End	2527
Name	OJ991114_35.0419.C18.o1.gp	Method	AAT/GAP

Start	1039	End	1470
GI	5701669	Score	845
Exons	1039..1470		
GI Descrip.	5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	53289	Seq. ID	OJ991114_35.0419.C18
Gene No.	112269	Strand	
Start	4538	End	4660
Name	OJ991114_35.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	4538	End	4660
GI	none	Score	204
Exons	4538..4579, 4541..4660, 4570..4656		

Seq. No.	53290	Seq. ID	OJ991114_35.0419.C19
Gene No.	112270	Strand	+
Start	1	End	2732
Name	OJ991114_35.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	2732
GI	7444148	Score	1300
Exons	1..306, 1123..2732		
GI Descrip.	probable transport protein - Arabidopsis thaliana gi|2244772|emb|CAB10195.1| (Z97335) transport protein [Arabidopsis thaliana] gi|7268121|emb|CAB78458.1| (AL161538) transport protein [Arabidopsis thaliana]		

Seq. No.	53290	Seq. ID	OJ991114_35.0419.C19
Gene No.	112270	Strand	+
Start	1	End	2732
Name	OJ991114_35.0419.C19.o3.tm	Method	TBLASTX:Maize
Start	31	End	264
GI	none	Score	246
Exons	31..264, 32..211		

Seq. No.	53290	Seq. ID	OJ991114_35.0419.C19
Gene No.	112270	Strand	+
Start	1	End	2732
Name	OJ991114_35.0419.C19.o1.gs	Method	GENSCAN
Start	54	End	2703
GI	none	Score	.65
Exons	54..223, 1069..2703		

Seq. No.	53290	Seq. ID	OJ991114_35.0419.C19
Gene No.	112270	Strand	+
Start	1	End	2732
Name	OJ991114_35.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	98	End	1839
GI	none	Score	84
Exons	98..226, 1123..1206, 1263..1628, 1264..1629, 1635..1781, 1636..1839		

Seq. No.	53290	Seq. ID	OJ991114_35.0419.C19
Gene No.	112270	Strand	+
Start	1	End	2732
Name	OJ991114_35.0419.C19.o2.tm	Method	TBLASTX:Maize
Start	1098	End	1397

GI	none	Score	211
Exons	1098..1250, 1100..1234, 1101..1253, 1102..1254, 1233..1397, 1234..1395, 1295..1396		

Seq. No.	53290	Seq. ID	OJ991114_35.0419.C19
Gene No.	112270	Strand	+
Start	1	End	2732
Name	OJ991114_35.0419.C19.o2.ts	Method	TBLASTX:Soybean
Start	1138	End	1509
GI	none	Score	89
Exons	1138..1212, 1138..1197, 1231..1290, 1278..1508, 1291..1509		

Seq. No.	53290	Seq. ID	OJ991114_35.0419.C19
Gene No.	112270	Strand	+
Start	1	End	2732
Name	OJ991114_35.0419.C19.o1.gp	Method	AAT/GAP
Start	1316	End	1755
GI	LIB3433-008-Q6-K1-B8	Score	819
Exons	1316..1755		
GI Descrip.	'3935152 8.0e-27 (AC005106) T25N20.16 [Arabidopsis thaliana]'		

Seq. No.	53290	Seq. ID	OJ991114_35.0419.C19
Gene No.	112270	Strand	+
Start	1	End	2732
Name	OJ991114_35.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	1510	End	2628
GI	none	Score	91
Exons	1510..1629, 1515..1619, 1635..1823, 1636..1875, 1885..1962, 1975..2628, 1996..2142, 2100..2276, 2182..2307, 2322..2459, 2329..2616, 2547..2627		

Seq. No.	53290	Seq. ID	OJ991114_35.0419.C19
Gene No.	112270	Strand	+
Start	1	End	2732
Name	OJ991114_35.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	1651	End	2672
GI	none	Score	170
Exons	1651..1875, 1665..1856, 1885..1962, 1981..2628, 2080..2361, 2100..2465, 2392..2622, 2547..2627, 2649..2672		

Seq. No.	53290	Seq. ID	OJ991114_35.0419.C19
Gene No.	112270	Strand	+
Start	1	End	2732
Name	OJ991114_35.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	1684	End	2010
GI	none	Score	526
Exons	1684..2007, 1684..1932, 1706..1978, 1984..2010		

Seq. No.	53290	Seq. ID	OJ991114_35.0419.C19
Gene No.	112270	Strand	+
Start	1	End	2732
Name	OJ991114_35.0419.C19.o3.tc	Method	TBLASTX:Cress
Start	1984	End	2274
GI	none	Score	256
Exons	1984..2274, 1996..2025, 2053..2274		

Seq. No.	53290	Seq. ID	OJ991114_35.0419.C19

Gene No.	112270	Strand	+
Start	1	End	2732
Name	OJ991114_35.0419.C19.o2.tc	Method	TBLASTX:Cress
Start	2275	End	2633
GI	none	Score	366
Exons	2275..2628, 2275..2604, 2505..2633, 2547..2627		

Seq. No.	53291	Seq. ID	OJ991114_35.0419.C20
Gene No.	112271	Strand	+
Start	4904	End	6752
Name	OJ991114_35.0419.C20.o2.np	Method	AAT/NAP
Start	4904	End	6752
GI	5852093	Score	76
Exons	4904..5012, 6732..6752		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	53291	Seq. ID	OJ991114_35.0419.C20
Gene No.	112272	Strand	-
Start	1130	End	3405
Name	OJ991114_35.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	798	End	3262
GI	none	Score	65
Exons	798..872, 799..894, 800..895, 801..917, 869..1033, 899..1024, 909..1034, 1050..1130, 1075..1131, 1078..1134, 1129..1185, 1131..1184, 1132..1185, 1136..1189, 1255..1329, 1270..1329, 1271..1330, 1439..1513, 1454..1507, 1508..1552, 1642..1782, 1661..1786, 1809..1928, 1842..1916, 1855..1929, 1859..1930, 1865..1930, 3113..3160, 3114..3152, 3206..3262, 3208..3255		

Seq. No.	53291	Seq. ID	OJ991114_35.0419.C20
Gene No.	112272	Strand	-
Start	1130	End	3405
Name	OJ991114_35.0419.C20.o1.gp	Method	AAT/GAP
Start	802	End	2154
GI	21144_1.R1084	Score	1875
Exons	802..1184, 1269..1330, 1455..1548, 1662..2154		
GI Descrip.	'4760545/dbj|BAA77333.1| 1.0e-10 (AB019492) IDN4-GGTR14 [Homo sapiens]'		

Seq. No.	53291	Seq. ID	OJ991114_35.0419.C20
Gene No.	112272	Strand	-
Start	1130	End	3405
Name	OJ991114_35.0419.C20.o1.gs	Method	GENSCAN
Start	1130	End	3262
GI	none	Score	.84
Exons	1130..1184, 1455..1548, 1662..1885, 3012..3262		

Seq. No.	53291	Seq. ID	OJ991114_35.0419.C20
Gene No.	112272	Strand	-
Start	1130	End	3405
Name	OJ991114_35.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	1145	End	1929
GI	none	Score	58
Exons	1145..1198, 1149..1199, 1270..1329, 1274..1378, 1439..1549, 1457..1540, 1669..1782, 1682..1786, 1876..1929, 1882..1923		

Seq. No.	53291	Seq. ID	OJ991114_35.0419.C20

Gene No.	112272	Strand	-
Start	1130	End	3405
Name	OJ991114_35.0419.C20.o1.np	Method	AAT/NAP
Start	1150	End	3253
GI	2618721	Score	459
Exons	1150..1184, 1269..1330, 1455..1595, 1660..1927, 3051..3253		
GI Descrip.	(U49072) IAA16 [Arabidopsis thaliana] gi|6175173|gb|AAF04899.1|AC011437_14 (AC011437) auxin-induced protein [Arabidopsis thaliana]		

Seq. No.	53291	Seq. ID	OJ991114_35.0419.C20
Gene No.	112272	Strand	-
Start	1130	End	3405
Name	OJ991114_35.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	1270	End	1770
GI	none	Score	54
Exons	1270..1329, 1271..1330, 1445..1507, 1445..1531, 1621..1770		

Seq. No.	53291	Seq. ID	OJ991114_35.0419.C20
Gene No.	112272	Strand	-
Start	1130	End	3405
Name	OJ991114_35.0419.C20.o1.tw	Method	TBLASTX:Wheat
Start	1270	End	1540
GI	none	Score	56
Exons	1270..1332, 1271..1330, 1439..1540, 1457..1540		

Seq. No.	53291	Seq. ID	OJ991114_35.0419.C20
Gene No.	112272	Strand	-
Start	1130	End	3405
Name	OJ991114_35.0419.C20.o2.gp	Method	AAT/GAP
Start	3032	End	3405
GI	572142	Score	479
Exons	3032..3405		

Seq. No.	53292	Seq. ID	OJ991114_35.0419.C21
Gene No.	112273	Strand	-
Start	30	End	229
Name	OJ991114_35.0419.C21.o1.gs	Method	GENSCAN
Start	30	End	229
GI	none	Score	.6
Exons	30..229		

Seq. No.	53293	Seq. ID	OJ991114_35.0419.C23
Gene No.	112274	Strand	+
Start	1	End	908
Name	OJ991114_35.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	908
GI	6175187	Score	384
Exons	1..129, 764..908		
GI Descrip.	(AC011437) unknown protein [Arabidopsis thaliana]		

Seq. No.	53293	Seq. ID	OJ991114_35.0419.C23
Gene No.	112275	Strand	+
Start	982	End	1361
Name	OJ991114_35.0419.C23.o1.gp	Method	AAT/GAP
Start	982	End	1361
GI	5803472	Score	712

Exons	982..1361		
Seq. No.	53293	Seq. ID	OJ991114_35.0419.C23
Gene No.	112276	Strand	+
Start	6851	End	8486
Name	OJ991114_35.0419.C23.o2.np	Method	AAT/NAP
Start	6851	End	8486
GI	5915835	Score	1005
Exons	6851..7776, 7872..8486		
GI Descrip.	CYTOCHROME P450 71D6 gi|1762142 (U48434) putative cytochrome P450 [Solanum chacoense]		
Seq. No.	53293	Seq. ID	OJ991114_35.0419.C23
Gene No.	112277	Strand	+
Start	10907	End	11349
Name	OJ991114_35.0419.C23.o2.gp	Method	AAT/GAP
Start	10907	End	11349
GI	LIB3432-059-P1-K1-D8	Score	676
Exons	10907..11349		
GI Descrip.	'5734616/dbj|AP000391.1|AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		
Seq. No.	53293	Seq. ID	OJ991114_35.0419.C23
Gene No.	112278	Strand	-
Start	10007	End	10824
Name	OJ991114_35.0419.C23.o3.gs	Method	GENSCAN
Start	10007	End	10824
GI	none	Score	.81
Exons	10007..10182, 10518..10561, 10673..10824		
Seq. No.	53293	Seq. ID	OJ991114_35.0419.C23
Gene No.	112279	Strand	-
Start	11283	End	11353
Name	OJ991114_35.0419.C23.o3.tm	Method	TBLASTX:Maize
Start	1	End	951
GI	none	Score	150
Exons	1..129, 1..129, 2..130, 51..134, 110..154, 710..889, 760..879, 762..890, 762..887, 797..889, 867..908, 895..951		
Seq. No.	53293	Seq. ID	OJ991114_35.0419.C23
Gene No.	112279	Strand	-
Start	11283	End	11353
Name	OJ991114_35.0419.C23.o2.tc	Method	TBLASTX:Cress
Start	2	End	884
GI	none	Score	199
Exons	2..130, 58..153, 710..859, 732..875, 750..884		
Seq. No.	53293	Seq. ID	OJ991114_35.0419.C23
Gene No.	112279	Strand	-
Start	11283	End	11353
Name	OJ991114_35.0419.C23.o3.tw	Method	TBLASTX:Wheat
Start	2	End	884
GI	none	Score	206
Exons	2..130, 58..129, 762..884, 797..883		
Seq. No.	53293	Seq. ID	OJ991114_35.0419.C23
Gene No.	112279	Strand	-

Start	11283	End	11353
Name	OJ991114_35.0419.C23.o3.ts	Method	TBLASTX:Soybean
Start	2	End	133
GI	none	Score	198
Exons	2..133, 58..132		

Seq. No.	53293	Seq. ID	OJ991114_35.0419.C23
Gene No.	112279	Strand	-
Start	11283	End	11353
Name	OJ991114_35.0419.C23.o2.ts	Method	TBLASTX:Soybean
Start	762	End	892
GI	none	Score	198
Exons	762..875, 762..875, 797..892		

Seq. No.	53293	Seq. ID	OJ991114_35.0419.C23
Gene No.	112279	Strand	-
Start	11283	End	11353
Name	OJ991114_35.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	6860	End	7294
GI	none	Score	427
Exons	6860..6916, 6934..7284, 6968..7294, 7163..7294		

Seq. No.	53293	Seq. ID	OJ991114_35.0419.C23
Gene No.	112279	Strand	-
Start	11283	End	11353
Name	OJ991114_35.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	6937	End	8441
GI	none	Score	271
Exons	6937..7326, 6968..7306, 7349..7516, 7634..7705, 7738..7776, 7866..8012, 7871..8011, 8028..8201, 8039..8185, 8040..8189, 8205..8441, 8264..8440		

Seq. No.	53293	Seq. ID	OJ991114_35.0419.C23
Gene No.	112279	Strand	-
Start	11283	End	11353
Name	OJ991114_35.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	6986	End	8473
GI	none	Score	217
Exons	6986..7423, 7021..7302, 7866..8198, 7886..8188, 8211..8465, 8264..8473		

Seq. No.	53293	Seq. ID	OJ991114_35.0419.C23
Gene No.	112279	Strand	-
Start	11283	End	11353
Name	OJ991114_35.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	7832	End	8186
GI	none	Score	149
Exons	7832..8032, 7872..8021, 8007..8186, 8013..8138, 8042..8185		

Seq. No.	53293	Seq. ID	OJ991114_35.0419.C23
Gene No.	112279	Strand	-
Start	11283	End	11353
Name	OJ991114_35.0419.C23.o2.tm	Method	TBLASTX:Maize
Start	7841	End	8347
GI	none	Score	125
Exons	7841..8020, 7872..8021, 8009..8185, 8031..8195, 8220..8339, 8261..8347		

Seq. No.	53293	Seq. ID	OJ991114_35.0419.C23
Gene No.	112279	Strand	-
Start	11283	End	11353
Name	OJ991114_35.0419.C23.o2.tw	Method	TBLASTX:Wheat
Start	8220	End	8450
GI	none	Score	228
Exons	8220..8450, 8221..8382, 8256..8393, 8261..8437		

Seq. No.	53293	Seq. ID	OJ991114_35.0419.C23
Gene No.	112279	Strand	-
Start	11283	End	11353
Name	OJ991114_35.0419.C23.o3.gp	Method	AAT/GAP
Start	11283	End	11353
GI	77434_1.R1084	Score	117
Exons	11283..11353		
GI Descrip.	'2827528/emb|CAA16536.1| 2.0e-10 (AL021633) predicted protein [Arabidopsis thaliana]'		

Seq. No.	53294	Seq. ID	OJ991114_35.0419.C24
Gene No.	112280	Strand	+
Start	974	End	1996
Name	OJ991114_35.0419.C24.o2.gs	Method	GENSCAN
Start	974	End	1996
GI	none	Score	.96
Exons	974..1996		

Seq. No.	53294	Seq. ID	OJ991114_35.0419.C24
Gene No.	112280	Strand	+
Start	974	End	1996
Name	OJ991114_35.0419.C24.o1.np	Method	AAT/NAP
Start	1307	End	1984
GI	7485990	Score	326
Exons	1307..1392, 1433..1984		
GI Descrip.	hypothetical protein F22O13.28 - Arabidopsis thaliana gi|3063466|gb|AAC14054.1| (AC003981) F22O13.28 [Arabidopsis thaliana]		

Seq. No.	53294	Seq. ID	OJ991114_35.0419.C24
Gene No.	112280	Strand	+
Start	974	End	1996
Name	OJ991114_35.0419.C24.o1.gp	Method	AAT/GAP
Start	1327	End	1769
GI	none	Score	825
Exons	1327..1769		

Seq. No.	53294	Seq. ID	OJ991114_35.0419.C24
Gene No.	112281	Strand	-
Start	262	End	632
Name	OJ991114_35.0419.C24.o1.gs	Method	GENSCAN
Start	262	End	632
GI	none	Score	.43
Exons	262..330, 432..632		

Seq. No.	53294	Seq. ID	OJ991114_35.0419.C24
Gene No.	112282	Strand	
Start	1726	End	2007

Name	OJ991114_35.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	1726	End	2007
GI	none	Score	306
Exons	1726..1947, 1727..1948, 1942..2007, 1946..2005		

Seq. No.	53295	Seq. ID	OJ991114_35.0419.C25
Gene No.	112283	Strand	-
Start	828	End	3108
Name	OJ991114_35.0419.C25.o2.gs	Method	GENSCAN
Start	828	End	3013
GI	none	Score	.64
Exons	828..991, 1433..1526, 1636..1728, 2104..2176, 2688..3013		

Seq. No.	53295	Seq. ID	OJ991114_35.0419.C25
Gene No.	112283	Strand	-
Start	828	End	3108
Name	OJ991114_35.0419.C25.o1.gp	Method	AAT/GAP
Start	1416	End	2754
GI	uC-osflcyp129b04a1	Score	948
Exons	1416..1728, 2104..2176, 2549..2599, 2688..2754		
GI Descrip.	'1946361 7.0e-25 (U93215) C3HC4 zinc finger protein isolog [Arabidopsis thaliana]'		

Seq. No.	53295	Seq. ID	OJ991114_35.0419.C25
Gene No.	112283	Strand	-
Start	828	End	3108
Name	OJ991114_35.0419.C25.o1.np	Method	AAT/NAP
Start	1555	End	3108
GI	1946361	Score	175
Exons	1555..1728, 2104..2176, 2549..2599, 2688..2955, 3008..3108		
GI Descrip.	(U93215) putative C3HC4 zinc finger protein [Arabidopsis thaliana]		

Seq. No.	53296	Seq. ID	OJ991114_35.0419.C26
Gene No.	112284	Strand	+
Start	12090	End	12533
Name	OJ991114_35.0419.C26.o1.gp	Method	AAT/GAP
Start	12090	End	12533
GI	none	Score	832
Exons	12090..12533		

Seq. No.	53296	Seq. ID	OJ991114_35.0419.C26
Gene No.	112285	Strand	-
Start	3694	End	7701
Name	OJ991114_35.0419.C26.o2.gs	Method	GENSCAN
Start	3694	End	7701
GI	none	Score	.52
Exons	3694..3759, 5437..5540, 7668..7701		

Seq. No.	53297	Seq. ID	OJ991104_13.0421.C5
Gene No.	112286	Strand	+
Start	621	End	726
Name	OJ991104_13.0421.C5.o1.gs	Method	GENSCAN
Start	621	End	726
GI	none	Score	.58
Exons	621..726		

Seq. No.	53298	Seq. ID	OJ990714_12.0419.C2
Gene No.	112287	Strand	+
Start	443	End	1500
Name	OJ990714_12.0419.C2.o1.gs	Method	GENSCAN
Start	443	End	1500
GI	none	Score	.78
Exons	443..526, 877..1500		

Seq. No.	53298	Seq. ID	OJ990714_12.0419.C2
Gene No.	112288	Strand	-
Start	349	End	2519
Name	OJ990714_12.0419.C2.o1.np	Method	AAT/NAP
Start	349	End	2519
GI	7339719	Score	69
Exons	349..475, 2493..2519		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	53299	Seq. ID	OJ990714_12.0419.C3
Gene No.	112289	Strand	+
Start	1175	End	1312
Name	OJ990714_12.0419.C3.o1.gs	Method	GENSCAN
Start	1175	End	1312
GI	none	Score	.84
Exons	1175..1312		

Seq. No.	53300	Seq. ID	OJ990714_12.0419.C4
Gene No.	112290	Strand	+
Start	1383	End	4875
Name	OJ990714_12.0419.C4.o1.np	Method	AAT/NAP
Start	1233	End	4875
GI	7228442	Score	664
Exons	1233..1687, 1718..2141, 4819..4875		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	53300	Seq. ID	OJ990714_12.0419.C4
Gene No.	112290	Strand	+
Start	1383	End	4875
Name	OJ990714_12.0419.C4.o1.gs	Method	GENSCAN
Start	1383	End	2975
GI	none	Score	.58
Exons	1383..1436, 1569..1643, 1676..1966, 2862..2975		

Seq. No.	53300	Seq. ID	OJ990714_12.0419.C4
Gene No.	112290	Strand	+
Start	1383	End	4875
Name	OJ990714_12.0419.C4.o2.np	Method	AAT/NAP
Start	2862	End	2973
GI	6006359	Score	65
Exons	2862..2973		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	53301	Seq. ID	OJ990714_12.0419.C7
Gene No.	112291	Strand	-
Start	30	End	327
Name	OJ990714_12.0419.C7.o1.gs	Method	GENSCAN

Start	30	End	327
GI	none	Score	.97
Exons	30..327		

Seq. No.	53302	Seq. ID	OJ990714_12.0419.C9
Gene No.	112292	Strand	+
Start	301	End	526
Name	OJ990714_12.0419.C9.o1.gs	Method	GENSCAN
Start	301	End	526
GI	none	Score	.75
Exons	301..347, 421..526		

Seq. No.	53302	Seq. ID	OJ990714_12.0419.C9
Gene No.	112293	Strand	-
Start	1836	End	2357
Name	OJ990714_12.0419.C9.o2.gs	Method	GENSCAN
Start	1836	End	2357
GI	none	Score	.91
Exons	1836..1970, 2009..2357		

Seq. No.	53303	Seq. ID	OJ990714_12.0419.C10
Gene No.	112294	Strand	+
Start	1382	End	2895
Name	OJ990714_12.0419.C10.o1.gs	Method	GENSCAN
Start	1382	End	2895
GI	none	Score	.67
Exons	1382..1543, 1558..1633, 2747..2895		

Seq. No.	53303	Seq. ID	OJ990714_12.0419.C10
Gene No.	112294	Strand	+
Start	1382	End	2895
Name	OJ990714_12.0419.C10.o1.gp	Method	AAT/GAP
Start	2112	End	2474
GI	2309880	Score	688
Exons	2112..2474		
GI Descrip.	4521194/dbj|AB013613.1|AB013613 3.0e-60 Oryza sativa DNA, centromere sequence RCB11		

Seq. No.	53303	Seq. ID	OJ990714_12.0419.C10
Gene No.	112295	Strand	+
Start	4007	End	6488
Name	OJ990714_12.0419.C10.o2.gp	Method	AAT/GAP
Start	3982	End	4621
GI	63240_1.R1084	Score	719
Exons	3982..4048, 4148..4424, 4549..4621		
GI Descrip.	'5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	53303	Seq. ID	OJ990714_12.0419.C10
Gene No.	112295	Strand	+
Start	4007	End	6488
Name	OJ990714_12.0419.C10.o2.gs	Method	GENSCAN
Start	4007	End	6246
GI	none	Score	.82
Exons	4007..4048, 4066..4357, 4488..4631, 5092..5129, 5387..5446, 5619..5727, 5814..5866, 5962..6042, 6134..6246		

Seq. No.	53303	Seq. ID	OJ990714_12.0419.C10
Gene No.	112295	Strand	+
Start	4007	End	6488
Name	OJ990714_12.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	4150	End	5464
GI	none	Score	159
Exons	4150..4260, 4151..4348, 4367..4426, 4533..4631, 4547..4642, 4547..4639, 5384..5464, 5387..5455		

Seq. No.	53303	Seq. ID	OJ990714_12.0419.C10
Gene No.	112295	Strand	+
Start	4007	End	6488
Name	OJ990714_12.0419.C10.o1.np	Method	AAT/NAP
Start	4151	End	6311
GI	7486208	Score	551
Exons	4151..4302, 4539..4631, 5387..5446, 5619..5727, 5814..5866, 5962..6042, 6134..6311		
GI Descrip.	hypothetical protein F26P21.120 - Arabidopsis thaliana (fragment) gi|3688181|emb|CAA21209.1| (AL031804) putative protein (fragment) [Arabidopsis thaliana] gi|7270247|emb|CAB80017.1| (AL161582) putative protein (fragment) [Arabidopsis thaliana]		

Seq. No.	53303	Seq. ID	OJ990714_12.0419.C10
Gene No.	112295	Strand	+
Start	4007	End	6488
Name	OJ990714_12.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	4551	End	6481
GI	none	Score	102
Exons	4551..4631, 5387..5449, 5580..5735, 5618..5722, 5622..5726, 5816..5854, 5818..5868, 5959..6042, 6131..6247, 6133..6246, 6410..6481		

Seq. No.	53303	Seq. ID	OJ990714_12.0419.C10
Gene No.	112295	Strand	+
Start	4007	End	6488
Name	OJ990714_12.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	4551	End	6481
GI	none	Score	102
Exons	4551..4631, 5387..5449, 5580..5735, 5618..5722, 5816..5854, 5824..5868, 5959..6042, 6131..6247, 6410..6481		

Seq. No.	53303	Seq. ID	OJ990714_12.0419.C10
Gene No.	112295	Strand	+
Start	4007	End	6488
Name	OJ990714_12.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	5386	End	6488
GI	none	Score	94
Exons	5386..5448, 5387..5449, 5598..5726, 5600..5728, 5616..5726, 5807..5869, 5815..5871, 5816..5854, 5959..6042, 5959..6060, 5961..6044, 6397..6480, 6419..6481, 6420..6488, 6428..6484		

Seq. No.	53303	Seq. ID	OJ990714_12.0419.C10
Gene No.	112295	Strand	+
Start	4007	End	6488
Name	OJ990714_12.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	5637	End	6487

GI	none	Score	147
Exons	5637..5726, 5639..5737, 5639..5728, 5640..5729, 5807..5869, 5814..5870, 5815..5871, 5815..5871, 5959..6042, 5960..6040, 6125..6250, 6131..6247, 6410..6487, 6427..6480		

Seq. No.	53304	Seq. ID	OJ990714_12.0419.C11
Gene No.	112296	Strand	-
Start	420	End	782
Name	OJ990714_12.0419.C11.o1.gs	Method	GENSCAN
Start	420	End	782
GI	none	Score	1
Exons	420..782		

Seq. No.	53305	Seq. ID	OJ990714_12.0419.C13
Gene No.	112297	Strand	-
Start	797	End	874
Name	OJ990714_12.0419.C13.o1.gs	Method	GENSCAN
Start	797	End	874
GI	none	Score	.97
Exons	797..874		

Seq. No.	53306	Seq. ID	OJ990714_12.0419.C14
Gene No.	112298	Strand	-
Start	1	End	5308
Name	OJ990714_12.0419.C14.o1.gp	Method	AAT/GAP
Start	1	End	3980
GI	342_1.R1084	Score	6980
Exons	1..3980		
GI Descrip.	'4574406/gb|AAD24042.1| 0.0e+00 (AF121139) RIM2 protein [Oryza sativa]'		

Seq. No.	53306	Seq. ID	OJ990714_12.0419.C14
Gene No.	112298	Strand	-
Start	1	End	5308
Name	OJ990714_12.0419.C14.o1.np	Method	AAT/NAP
Start	675	End	5308
GI	4680203	Score	3236
Exons	675..1651, 1928..2158, 2312..3984, 5289..5308		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	53306	Seq. ID	OJ990714_12.0419.C14
Gene No.	112298	Strand	-
Start	1	End	5308
Name	OJ990714_12.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	729	End	2045
GI	none	Score	133
Exons	729..821, 810..878, 894..1010, 902..1042, 903..1043, 990..1085, 1022..1081, 1088..1129, 1088..1132, 1127..2044, 1142..1459, 1314..2045, 1320..2045		

Seq. No.	53306	Seq. ID	OJ990714_12.0419.C14
Gene No.	112298	Strand	-
Start	1	End	5308
Name	OJ990714_12.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	1313	End	1761
GI	none	Score	320
Exons	1313..1753, 1314..1757, 1320..1757, 1579..1761		

Seq. No.	53306	Seq. ID	OJ990714_12.0419.C14
Gene No.	112298	Strand	-
Start	1	End	5308
Name	OJ990714_12.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	1688	End	2002
GI	none	Score	73
Exons	1688..1918, 1688..2002, 1716..1985		

Seq. No.	53306	Seq. ID	OJ990714_12.0419.C14
Gene No.	112298	Strand	-
Start	1	End	5308
Name	OJ990714_12.0419.C14.o3.tw	Method	TBLASTX:Wheat
Start	2046	End	2456
GI	none	Score	77
Exons	2046..2129, 2048..2137, 2048..2128, 2165..2407, 2205..2387, 2393..2455, 2406..2456		

Seq. No.	53306	Seq. ID	OJ990714_12.0419.C14
Gene No.	112298	Strand	-
Start	1	End	5308
Name	OJ990714_12.0419.C14.o2.ts	Method	TBLASTX:Soybean
Start	2489	End	2731
GI	none	Score	208
Exons	2489..2731		

Seq. No.	53306	Seq. ID	OJ990714_12.0419.C14
Gene No.	112298	Strand	-
Start	1	End	5308
Name	OJ990714_12.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	2561	End	2997
GI	none	Score	106
Exons	2561..2755, 2765..2890, 2884..2997		

Seq. No.	53306	Seq. ID	OJ990714_12.0419.C14
Gene No.	112298	Strand	-
Start	1	End	5308
Name	OJ990714_12.0419.C14.o2.tw	Method	TBLASTX:Wheat
Start	2595	End	3063
GI	none	Score	173
Exons	2595..2801, 2595..2804, 2600..2803, 2600..2824, 2804..2890, 2805..2891, 2887..2988, 2905..2997, 2909..2998, 3010..3063, 3011..3055		

Seq. No.	53306	Seq. ID	OJ990714_12.0419.C14
Gene No.	112298	Strand	-
Start	1	End	5308
Name	OJ990714_12.0419.C14.o2.tc	Method	TBLASTX:Cress
Start	2884	End	3199
GI	none	Score	63
Exons	2884..3195, 2915..3007, 3047..3199		

Seq. No.	53306	Seq. ID	OJ990714_12.0419.C14
Gene No.	112298	Strand	-
Start	1	End	5308
Name	OJ990714_12.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	2932	End	3361

GI	none	Score	100
Exons	2932..3228, 2945..3178, 3278..3361, 3286..3360		

Seq. No.	53306	Seq. ID	OJ990714_12.0419.C14
Gene No.	112298	Strand	-
Start	1	End	5308
Name	OJ990714_12.0419.C14.o4.tw	Method	TBLASTX:Wheat
Start	3282	End	3633
GI	none	Score	187
Exons	3282..3533, 3292..3543, 3293..3535, 3526..3633		

Seq. No.	53306	Seq. ID	OJ990714_12.0419.C14
Gene No.	112298	Strand	-
Start	1	End	5308
Name	OJ990714_12.0419.C14.o6.gp	Method	AAT/GAP
Start	3845	End	4432
GI	2310235	Score	295
Exons	3845..3984, 4395..4432		
GI Descrip.	5852182/emb|CAB55420.1| 9.0e-13 (AL117265) zhb0012.1 [Oryza sativa]		

Seq. No.	53307	Seq. ID	OJ990714_12.0419.C15
Gene No.	112299	Strand	+
Start	89	End	625
Name	OJ990714_12.0419.C15.o1.gs	Method	GENSCAN
Start	89	End	625
GI	none	Score	.68
Exons	89..159, 505..625		

Seq. No.	53307	Seq. ID	OJ990714_12.0419.C15
Gene No.	112300	Strand	-
Start	791	End	1395
Name	OJ990714_12.0419.C15.o2.gs	Method	GENSCAN
Start	791	End	1117
GI	none	Score	.46
Exons	791..1117		

Seq. No.	53307	Seq. ID	OJ990714_12.0419.C15
Gene No.	112300	Strand	-
Start	791	End	1395
Name	OJ990714_12.0419.C15.o1.np	Method	AAT/NAP
Start	811	End	1395
GI	6069646	Score	247
Exons	811..1395		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	53307	Seq. ID	OJ990714_12.0419.C15
Gene No.	112300	Strand	-
Start	791	End	1395
Name	OJ990714_12.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	937	End	1305
GI	none	Score	64
Exons	937..984, 1099..1152, 1161..1283, 1168..1287, 1168..1305		

Seq. No.	53307	Seq. ID	OJ990714_12.0419.C15
Gene No.	112300	Strand	-
Start	791	End	1395
Name	OJ990714_12.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	1018	End	1296
GI	none	Score	87
Exons	1018..1176, 1158..1289, 1168..1296		

Seq. No.	53308	Seq. ID	OJ990714_12.0419.C16
Gene No.	112301	Strand	+
Start	1096	End	4755
Name	OJ990714_12.0419.C16.o1.gs	Method	GENSCAN
Start	1096	End	4755
GI	none	Score	.76
Exons	1096..1129, 2090..2721, 2892..3059, 4560..4755		

Seq. No.	53308	Seq. ID	OJ990714_12.0419.C16
Gene No.	112301	Strand	+
Start	1096	End	4755
Name	OJ990714_12.0419.C16.o2.np	Method	AAT/NAP
Start	2290	End	3683
GI	7228448	Score	62
Exons	2290..2420, 3542..3683		
GI Descrip.	(AP001366) ESTs AU068685(C30691),AU068684(C30691) correspond to a region of the predicted gene.; Similar to Genomic sequence for Arabidopsis thaliana BAC F21J9, F21J9.24. (AC000103) [Oryza sativa]		

Seq. No.	53308	Seq. ID	OJ990714_12.0419.C16
Gene No.	112302	Strand	-
Start	1	End	1524
Name	OJ990714_12.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	1493
GI	6069646	Score	679
Exons	1..416, 699..1493		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	53308	Seq. ID	OJ990714_12.0419.C16
Gene No.	112302	Strand	-
Start	1	End	1524
Name	OJ990714_12.0419.C16.o3.tm	Method	TBLASTX:Maize
Start	133	End	418
GI	none	Score	88
Exons	133..234, 247..417, 248..418		

Seq. No.	53308	Seq. ID	OJ990714_12.0419.C16
Gene No.	112302	Strand	-
Start	1	End	1524
Name	OJ990714_12.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	291	End	843
GI	none	Score	36
Exons	291..326, 403..561, 445..495, 541..843, 563..841		

Seq. No.	53308	Seq. ID	OJ990714_12.0419.C16
Gene No.	112302	Strand	-
Start	1	End	1524
Name	OJ990714_12.0419.C16.o2.tm	Method	TBLASTX:Maize
Start	482	End	1092
GI	none	Score	135
Exons	482..937, 484..1092, 1015..1077		

Seq. No.	53308	Seq. ID	OJ990714_12.0419.C16
Gene No.	112302	Strand	-
Start	1	End	1524
Name	OJ990714_12.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	1099	End	1524
GI	none	Score	265
Exons	1099..1524, 1100..1498		

Seq. No.	53309	Seq. ID	OJ990714_12.0419.C18
Gene No.	112303	Strand	-
Start	254	End	1621
Name	OJ990714_12.0419.C18.o1.gs	Method	GENSCAN
Start	254	End	1621
GI	none	Score	.45
Exons	254..293, 1545..1621		

Seq. No.	53310	Seq. ID	OJ990714_12.0419.C22
Gene No.	112304	Strand	-
Start	56	End	135
Name	OJ990714_12.0419.C22.o1.gp	Method	AAT/GAP
Start	56	End	135
GI	3106672	Score	100
Exons	56..135		
GI Descrip.	5734616/dbj|AP000391.1|AP000391 7.0e-48 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01		

Seq. No.	53311	Seq. ID	OJ990714_12.0419.C23
Gene No.	112305	Strand	+
Start	1	End	822
Name	OJ990714_12.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	822
GI	5902445	Score	752
Exons	1..822		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	53311	Seq. ID	OJ990714_12.0419.C23
Gene No.	112305	Strand	+
Start	1	End	822
Name	OJ990714_12.0419.C23.o2.tm	Method	TBLASTX:Maize
Start	78	End	290
GI	none	Score	226
Exons	78..290, 78..260		

Seq. No.	53311	Seq. ID	OJ990714_12.0419.C23
Gene No.	112305	Strand	+
Start	1	End	822
Name	OJ990714_12.0419.C23.o1.gs	Method	GENSCAN
Start	166	End	614

GI	none	Score	.97
Exons	166..614		
Seq. No.	53311	Seq. ID	OJ990714_12.0419.C23
Gene No.	112305	Strand	+
Start	1	End	822
Name	OJ990714_12.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	180	End	599
GI	none	Score	442
Exons	180..599, 186..419, 506..598		
Seq. No.	53311	Seq. ID	OJ990714_12.0419.C23
Gene No.	112305	Strand	+
Start	1	End	822
Name	OJ990714_12.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	294	End	650
GI	none	Score	276
Exons	294..650		
Seq. No.	53311	Seq. ID	OJ990714_12.0419.C23
Gene No.	112305	Strand	+
Start	1	End	822
Name	OJ990714_12.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	369	End	608
GI	none	Score	220
Exons	369..608, 509..598		
Seq. No.	53312	Seq. ID	OJ990714_12.0419.C25
Gene No.	112306	Strand	+
Start	3674	End	5069
Name	OJ990714_12.0419.C25.o1.gs	Method	GENSCAN
Start	3674	End	5069
GI	none	Score	.47
Exons	3674..3794, 4470..4873, 4888..5069		
Seq. No.	53312	Seq. ID	OJ990714_12.0419.C25
Gene No.	112307	Strand	+
Start	9277	End	10259
Name	OJ990714_12.0419.C25.o3.gs	Method	GENSCAN
Start	9277	End	10128
GI	none	Score	.5
Exons	9277..9351, 9877..10128		
Seq. No.	53312	Seq. ID	OJ990714_12.0419.C25
Gene No.	112307	Strand	+
Start	9277	End	10259
Name	OJ990714_12.0419.C25.o3.np	Method	AAT/NAP
Start	9973	End	10259
GI	6505722	Score	151
Exons	9973..10259		
GI Descrip.	(AB032123) ribosomal RNA apurinic site specific lyase [Triticum aestivum] gi|6513849|dbj|BAA87876.1| (AB032124) ribosomal RNA apurinic site specific lyase [Triticum aestivum]		
Seq. No.	53312	Seq. ID	OJ990714_12.0419.C25
Gene No.	112308	Strand	-
Start	1	End	8113

Name	OJ990714_12.0419.C25.o1.np	Method	AAT/NAP
Start	1	End	4385
GI	7488433	Score	580
Exons	1..110, 1026..1140, 1741..1811, 1898..2052, 2116..2231, 2347..2448, 3001..3092, 3192..3325, 3415..3497, 3586..3841, 4307..4385		
GI Descrip.	zinc finger protein homolog T10M13.22 - Arabidopsis thaliana gi|3377805|gb|AAC28178.1| (AF075597) contains similarity to several apoptosis or programmed cell death proteins such as rat apoptosis protein RP-8 (GB:M80601) [Arabidopsis thaliana] gi|3912928|gb|AAC78712.1| (AF001308) putative zinc finger protein [Arabidopsis thaliana] gi|7268982|emb|CAB80715.1| (AL161494) putati		

Seq. No.	53312	Seq. ID	OJ990714_12.0419.C25
Gene No.	112308	Strand	-
Start	1	End	8113
Name	OJ990714_12.0419.C25.o5.tm	Method	TBLASTX:Maize
Start	2133	End	3645
GI	none	Score	41
Exons	2133..2234, 2134..2235, 2348..2407, 2396..2422, 3029..3100, 3045..3095, 3192..3323, 3194..3331, 3248..3328, 3379..3477, 3416..3478, 3480..3503, 3586..3645, 3587..3631		

Seq. No.	53312	Seq. ID	OJ990714_12.0419.C25
Gene No.	112308	Strand	-
Start	1	End	8113
Name	OJ990714_12.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	3029	End	3645
GI	none	Score	98
Exons	3029..3094, 3192..3305, 3194..3304, 3290..3328, 3412..3477, 3434..3475, 3581..3628, 3586..3645		

Seq. No.	53312	Seq. ID	OJ990714_12.0419.C25
Gene No.	112308	Strand	-
Start	1	End	8113
Name	OJ990714_12.0419.C25.o2.np	Method	AAT/NAP
Start	3383	End	8113
GI	6016874	Score	2120
Exons	3383..3405, 5244..5466, 5912..6276, 6394..6573, 6967..7126, 7517..7749, 7814..7951, 8035..8113		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	53312	Seq. ID	OJ990714_12.0419.C25
Gene No.	112308	Strand	-
Start	1	End	8113
Name	OJ990714_12.0419.C25.o1.gp	Method	AAT/GAP
Start	4010	End	4745
GI	35458_1.R1084	Score	158
Exons	4010..4132, 4725..4745		
GI Descrip.	'3868853/dbj|BAA34247| 1.0e-21 (AB013853) GPI-anchored protein [Vigna radiata]'		

Seq. No.	53312	Seq. ID	OJ990714_12.0419.C25
Gene No.	112308	Strand	-

Start	1	End	8113
Name	OJ990714_12.0419.C25.o2.gs	Method	GENSCAN
Start	5933	End	8113
GI	none	Score	.73
Exons	5933..6393, 6967..7126, 7661..7749, 7814..7951, 8035..8113		

Seq. No.	53312	Seq. ID	OJ990714_12.0419.C25
Gene No.	112308	Strand	-
Start	1	End	8113
Name	OJ990714_12.0419.C25.o2.tm	Method	TBLASTX:Maize
Start	5999	End	6242
GI	none	Score	97
Exons	5999..6232, 6084..6242		

Seq. No.	53312	Seq. ID	OJ990714_12.0419.C25
Gene No.	112308	Strand	-
Start	1	End	8113
Name	OJ990714_12.0419.C25.o4.tm	Method	TBLASTX:Maize
Start	6354	End	6706
GI	none	Score	138
Exons	6354..6695, 6425..6706		

Seq. No.	53312	Seq. ID	OJ990714_12.0419.C25
Gene No.	112308	Strand	-
Start	1	End	8113
Name	OJ990714_12.0419.C25.o3.tm	Method	TBLASTX:Maize
Start	6911	End	7225
GI	none	Score	106
Exons	6911..7138, 6912..7130, 7151..7225		

Seq. No.	53312	Seq. ID	OJ990714_12.0419.C25
Gene No.	112308	Strand	-
Start	1	End	8113
Name	OJ990714_12.0419.C25.o2.gp	Method	AAT/GAP
Start	6916	End	7424
GI	uC-osf1cyp110c07b1	Score	958
Exons	6916..7424		
GI Descrip.	'4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		

Seq. No.	53312	Seq. ID	OJ990714_12.0419.C25
Gene No.	112308	Strand	-
Start	1	End	8113
Name	OJ990714_12.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	7319	End	7765
GI	none	Score	110
Exons	7319..7357, 7352..7414, 7415..7693, 7485..7694, 7679..7765		

Seq. No.	53313	Seq. ID	OJ990714_12.0419.C26
Gene No.	112309	Strand	+
Start	156	End	1898
Name	OJ990714_12.0419.C26.o1.gs	Method	GENSCAN
Start	156	End	1898
GI	none	Score	.49
Exons	156..281, 728..901, 1776..1898		

Seq. No.	53314	Seq. ID	OJ990714_12.0419.C27
Gene No.	112310	Strand	+
Start	416	End	2384
Name	OJ990714_12.0419.C27.o2.gp	Method	AAT/GAP
Start	416	End	1896
GI	none	Score	888
Exons	416..751, 836..907, 1798..1896		

Seq. No.	53314	Seq. ID	OJ990714_12.0419.C27
Gene No.	112310	Strand	+
Start	416	End	2384
Name	OJ990714_12.0419.C27.o1.gs	Method	GENSCAN
Start	491	End	2384
GI	none	Score	.79
Exons	491..691, 1798..1893, 2145..2257, 2321..2384		

Seq. No.	53314	Seq. ID	OJ990714_12.0419.C27
Gene No.	112311	Strand	+
Start	3108	End	3490
Name	OJ990714_12.0419.C27.o3.gp	Method	AAT/GAP
Start	3108	End	3490
GI	LIB3474-003-P1-K1-C12	Score	661
Exons	3108..3490		
GI Descrip.	'1168654/sp|P45582|BGAL_ASPOF 2.0e-28 BETA-GALACTOSIDASE PRECURSOR (LACTASE) >gi_542198_pir__S41889 beta-galactosidase (EC 3.2.1.23) - garden asparagus >gi_452712_emb_CAA54525_ (X77319) beta-galactosidase [Asparagus officinalis]'		

Seq. No.	53314	Seq. ID	OJ990714_12.0419.C27
Gene No.	112312	Strand	-
Start	116	End	174
Name	OJ990714_12.0419.C27.o1.gp	Method	AAT/GAP
Start	116	End	174
GI	2312838	Score	75
Exons	116..174		
GI Descrip.	1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	53314	Seq. ID	OJ990714_12.0419.C27
Gene No.	112313	Strand	-
Start	3828	End	4302
Name	OJ990714_12.0419.C27.o2.gs	Method	GENSCAN
Start	3828	End	4302
GI	none	Score	.95
Exons	3828..4033, 4191..4302		

Seq. No.	53315	Seq. ID	OJ990714_12.0419.C28
Gene No.	112314	Strand	+
Start	234	End	292
Name	OJ990714_12.0419.C28.o1.gs	Method	GENSCAN
Start	234	End	292
GI	none	Score	.89
Exons	234..292		

Seq. No.	53316	Seq. ID	OJ990714_12.0419.C29
Gene No.	112315	Strand	+
Start	91	End	1111

Name	OJ990714_12.0419.C29.o1.gs	Method	GENSCAN
Start	91	End	1111
GI	none	Score	.61
Exons	91..1111		

Seq. No.	53317	Seq. ID	OJ990714_12.0419.C31
Gene No.	112316	Strand	-
Start	923	End	1021
Name	OJ990714_12.0419.C31.o1.gs	Method	GENSCAN
Start	923	End	1021
GI	none	Score	.46
Exons	923..1021		

Seq. No.	53318	Seq. ID	OJ990714_12.0419.C33
Gene No.	112317	Strand	+
Start	1	End	2131
Name	OJ990714_12.0419.C33.o1.np	Method	AAT/NAP
Start	1	End	2131
GI	81286	Score	118
Exons	1..135, 1291..1465, 1641..1787, 1862..2131		
GI Descrip.	extensin - Volvox carteri (fragment) gi|21992|emb|CAA46283| (X65165) extensin [Volvox carteri]		

Seq. No.	53318	Seq. ID	OJ990714_12.0419.C33
Gene No.	112318	Strand	-
Start	311	End	2178
Name	OJ990714_12.0419.C33.o1.gs	Method	GENSCAN
Start	311	End	2178
GI	none	Score	.61
Exons	311..524, 920..1025, 1093..1166, 1376..1472, 1523..1799, 1852..2178		

Seq. No.	53319	Seq. ID	OJ990714_12.0419.C34
Gene No.	112319	Strand	+
Start	726	End	917
Name	OJ990714_12.0419.C34.o1.gp	Method	AAT/GAP
Start	726	End	917
GI	5667165	Score	360
Exons	726..917		
GI Descrip.	5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence		

Seq. No.	53319	Seq. ID	OJ990714_12.0419.C34
Gene No.	112320	Strand	+
Start	1004	End	2328
Name	OJ990714_12.0419.C34.o1.np	Method	AAT/NAP
Start	1004	End	2328
GI	6907086	Score	1049
Exons	1004..1767, 1828..2078, 2138..2328		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	53319	Seq. ID	OJ990714_12.0419.C34
Gene No.	112321	Strand	-
Start	578	End	1176
Name	OJ990714_12.0419.C34.o1.gs	Method	GENSCAN
Start	578	End	1176
GI	none	Score	.99

Exons	578..696, 1083..1176		
Seq. No.	53320	Seq. ID	OJ990714_12.0419.C35
Gene No.	112322	Strand	+
Start	633	End	1235
Name	OJ990714_12.0419.C35.o1.gs	Method	GENSCAN
Start	633	End	1235
GI	none	Score	.86
Exons	633..729, 1136..1235		
Seq. No.	53321	Seq. ID	OJ990714_12.0419.C36
Gene No.	112323	Strand	+
Start	2866	End	3242
Name	OJ990714_12.0419.C36.o2.gp	Method	AAT/GAP
Start	2866	End	3242
GI	45205_1.R1084	Score	722
Exons	2866..3242		
GI Descrip.	'4337196/gb|AAD18110| 5.0e-94 (AC006403) putative serine/threonine receptor kinase [Arabidopsis thaliana]'		
Seq. No.	53321	Seq. ID	OJ990714_12.0419.C36
Gene No.	112324	Strand	-
Start	161	End	1572
Name	OJ990714_12.0419.C36.o1.gs	Method	GENSCAN
Start	161	End	1572
GI	none	Score	.53
Exons	161..513, 534..857, 863..1000, 1322..1393, 1500..1572		
Seq. No.	53321	Seq. ID	OJ990714_12.0419.C36
Gene No.	112325	Strand	-
Start	2549	End	3242
Name	OJ990714_12.0419.C36.o1.gp	Method	AAT/GAP
Start	2396	End	2766
GI	2428853	Score	640
Exons	2396..2766		
Seq. No.	53321	Seq. ID	OJ990714_12.0419.C36
Gene No.	112325	Strand	-
Start	2549	End	3242
Name	OJ990714_12.0419.C36.o1.tm	Method	TBLASTX:Maize
Start	2430	End	3242
GI	none	Score	37
Exons	2430..2453, 2430..2453, 2549..2596, 2550..2579, 2660..2758, 2660..3241, 2664..3242, 3162..3242		
Seq. No.	53321	Seq. ID	OJ990714_12.0419.C36
Gene No.	112325	Strand	-
Start	2549	End	3242
Name	OJ990714_12.0419.C36.o1.np	Method	AAT/NAP
Start	2471	End	3242
GI	4337196	Score	740
Exons	2471..3242		
GI Descrip.	(AC006403) putative protein kinase [Arabidopsis thaliana]		
Seq. No.	53321	Seq. ID	OJ990714_12.0419.C36
Gene No.	112325	Strand	-
Start	2549	End	3242

Name	OJ990714_12.0419.C36.o2.gs	Method	GENSCAN
Start	2549	End	3136
GI	none	Score	.99
Exons	2549..3136		

Seq. No.	53321	Seq. ID	OJ990714_12.0419.C36
Gene No.	112325	Strand	-
Start	2549	End	3242
Name	OJ990714_12.0419.C36.o1.tc	Method	TBLASTX:Cress
Start	2663	End	3023
GI	none	Score	156
Exons	2663..2920, 2664..2921, 2921..3022, 2922..3023		

Seq. No.	53321	Seq. ID	OJ990714_12.0419.C36
Gene No.	112325	Strand	-
Start	2549	End	3242
Name	OJ990714_12.0419.C36.o1.ts	Method	TBLASTX:Soybean
Start	2675	End	3205
GI	none	Score	105
Exons	2675..2992, 2712..2981, 3032..3205, 3099..3197		

Seq. No.	53321	Seq. ID	OJ990714_12.0419.C36
Gene No.	112325	Strand	-
Start	2549	End	3242
Name	OJ990714_12.0419.C36.o1.tw	Method	TBLASTX:Wheat
Start	2864	End	3187
GI	none	Score	62
Exons	2864..3028, 2882..2977, 3029..3187		

Seq. No.	53321	Seq. ID	OJ990714_12.0419.C36
Gene No.	112325	Strand	-
Start	2549	End	3242
Name	OJ990714_12.0419.C36.o2.tc	Method	TBLASTX:Cress
Start	3077	End	3242
GI	none	Score	106
Exons	3077..3241, 3099..3242		

Seq. No.	53322	Seq. ID	OJ990714_12.0419.C37
Gene No.	112326	Strand	-
Start	1	End	1131
Name	OJ990714_12.0419.C37.o1.gp	Method	AAT/GAP
Start	1	End	956
GI	39908_1.R1084	Score	1150
Exons	1..358, 473..594, 715..809, 914..956		
GI Descrip.	'4337196/gb|AAD18110| 1.0e-19 (AC006403) putative serine/threonine receptor kinase [Arabidopsis thaliana]'		

Seq. No.	53322	Seq. ID	OJ990714_12.0419.C37
Gene No.	112326	Strand	-
Start	1	End	1131
Name	OJ990714_12.0419.C37.o1.np	Method	AAT/NAP
Start	1	End	1070
GI	3779032	Score	178
Exons	1..129, 271..372, 490..627, 712..768, 888..1070		
GI Descrip.	(AC005171) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	53322	Seq. ID	OJ990714_12.0419.C37

Gene No.	112326	Strand	-
Start	1	End	1131
Name	OJ990714_12.0419.C37.o1.gs	Method	GENSCAN
Start	31	End	1124
GI	none	Score	.71
Exons	31..358, 473..594, 715..809, 914..1124		

Seq. No.	53322	Seq. ID	OJ990714_12.0419.C37
Gene No.	112326	Strand	-
Start	1	End	1131
Name	OJ990714_12.0419.C37.o1.tm	Method	TBLASTX:Maize
Start	247	End	1131
GI	none	Score	160
Exons	247..360, 248..361, 458..544, 460..597, 472..594, 712..804, 712..798, 713..808, 930..1073, 931..1056, 990..1076, 1035..1130, 1036..1116, 1096..1131		

Seq. No.	53323	Seq. ID	OJ990714_12.0419.C38
Gene No.	112327	Strand	-
Start	48	End	750
Name	OJ990714_12.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	19	End	406
GI	none	Score	238
Exons	19..210, 37..222, 38..211, 39..233, 238..405, 290..406		

Seq. No.	53323	Seq. ID	OJ990714_12.0419.C38
Gene No.	112327	Strand	-
Start	48	End	750
Name	OJ990714_12.0419.C38.o1.tc	Method	TBLASTX:Cress
Start	45	End	750
GI	none	Score	118
Exons	45..209, 46..210, 58..210, 328..459, 328..462, 678..746, 679..750		

Seq. No.	53323	Seq. ID	OJ990714_12.0419.C38
Gene No.	112327	Strand	-
Start	48	End	750
Name	OJ990714_12.0419.C38.o1.np	Method	AAT/NAP
Start	48	End	746
GI	7489032	Score	418
Exons	48..210, 329..470, 629..746		
GI Descrip.	lycopene epsilon-cyclase (EC 5.5.1.-) - tomato gi|3005983|emb|CAA74745.1| (Y14387) lycopene epsilon-cyclase [Lycopersicon esculentum]		

Seq. No.	53323	Seq. ID	OJ990714_12.0419.C38
Gene No.	112327	Strand	-
Start	48	End	750
Name	OJ990714_12.0419.C38.o1.gs	Method	GENSCAN
Start	113	End	745
GI	none	Score	.95
Exons	113..290, 329..461, 614..745		

Seq. No.	53324	Seq. ID	OJ990714_12.0419.C40
Gene No.	112328	Strand	+
Start	564	End	833
Name	OJ990714_12.0419.C40.o1.gs	Method	GENSCAN

Start	564	End	833
GI	none	Score	.53
Exons	564..711, 775..833		

Seq. No.	53325	Seq. ID	OJ990714_12.0419.C42
Gene No.	112329	Strand	+
Start	1855	End	4234
Name	OJ990714_12.0419.C42.o1.gs	Method	GENSCAN
Start	1855	End	4234
GI	none	Score	.59
Exons	1855..2192, 3793..3883, 4002..4234		

Seq. No.	53326	Seq. ID	OJ990714_12.0419.C43
Gene No.	112330	Strand	+
Start	107	End	2543
Name	OJ990714_12.0419.C43.o1.gs	Method	GENSCAN
Start	107	End	2490
GI	none	Score	.92
Exons	107..503, 2174..2490		

Seq. No.	53326	Seq. ID	OJ990714_12.0419.C43
Gene No.	112330	Strand	+
Start	107	End	2543
Name	OJ990714_12.0419.C43.o1.np	Method	AAT/NAP
Start	936	End	2543
GI	4191783	Score	152
Exons	936..956, 2278..2543		
GI Descrip.	(AC005917) unknown protein [Arabidopsis thaliana]		

Seq. No.	53326	Seq. ID	OJ990714_12.0419.C43
Gene No.	112330	Strand	+
Start	107	End	2543
Name	OJ990714_12.0419.C43.o1.gp	Method	AAT/GAP
Start	2319	End	2527
GI	2796433	Score	398
Exons	2319..2527		
GI Descrip.	4191783 1.0e-14 (AC005917) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53326	Seq. ID	OJ990714_12.0419.C43
Gene No.	112331	Strand	-
Start	3568	End	6325
Name	OJ990714_12.0419.C43.o2.tm	Method	TBLASTX:Maize
Start	442	End	2571
GI	none	Score	85
Exons	442..501, 449..502, 2163..2219, 2171..2224, 2172..2219, 2173..2229, 2254..2313, 2311..2490, 2318..2407, 2333..2500, 2344..2490, 2498..2551, 2500..2571		

Seq. No.	53326	Seq. ID	OJ990714_12.0419.C43
Gene No.	112331	Strand	-
Start	3568	End	6325
Name	OJ990714_12.0419.C43.o2.gs	Method	GENSCAN
Start	3568	End	6230
GI	none	Score	.85
Exons	3568..3591, 3711..3885, 4075..4168, 4297..4461, 4858..4922, 5415..5497, 6081..6230		

Seq. No.	53326	Seq. ID	OJ990714_12.0419.C43
Gene No.	112331	Strand	-
Start	3568	End	6325
Name	OJ990714_12.0419.C43.o2.np	Method	AAT/NAP
Start	3699	End	6325
GI	6522542	Score	595
Exons	3699..3885, 4075..4169, 4304..4460, 4756..4878, 5415..5497, 5664..5782, 6163..6325		
GI Descrip.	(AL132955) putative protein [Arabidopsis thaliana]		

Seq. No.	53326	Seq. ID	OJ990714_12.0419.C43
Gene No.	112331	Strand	-
Start	3568	End	6325
Name	OJ990714_12.0419.C43.o1.tc	Method	TBLASTX:Cress
Start	3700	End	5777
GI	none	Score	144
Exons	3700..3891, 3723..3887, 3725..3889, 4074..4169, 4075..4173, 4241..4342, 4310..4468, 4311..4463, 4755..4877, 4756..4878, 5414..5500, 5664..5777, 5677..5775		

Seq. No.	53326	Seq. ID	OJ990714_12.0419.C43
Gene No.	112331	Strand	-
Start	3568	End	6325
Name	OJ990714_12.0419.C43.o1.tm	Method	TBLASTX:Maize
Start	3709	End	4454
GI	none	Score	175
Exons	3709..3843, 3711..3887, 3711..3887, 3712..3891, 4072..4185, 4072..4176, 4074..4190, 4290..4454, 4292..4453		

Seq. No.	53326	Seq. ID	OJ990714_12.0419.C43
Gene No.	112331	Strand	-
Start	3568	End	6325
Name	OJ990714_12.0419.C43.o2.gp	Method	AAT/GAP
Start	4796	End	4878
GI	LIB3433-007-Q6-K1-F6	Score	136
Exons	4796..4878		
GI Descrip.	'4191785 9.0e-15 (AC005917) putative hydrolase [Arabidopsis thaliana]'		

Seq. No.	53326	Seq. ID	OJ990714_12.0419.C43
Gene No.	112331	Strand	-
Start	3568	End	6325
Name	OJ990714_12.0419.C43.o3.gp	Method	AAT/GAP
Start	5456	End	6218
GI	1631574	Score	478
Exons	5456..5497, 5664..5782, 6081..6218		

Seq. No.	53327	Seq. ID	OJ990714_12.0419.C44
Gene No.	112332	Strand	-
Start	188	End	312
Name	OJ990714_12.0419.C44.o1.gs	Method	GENSCAN
Start	188	End	312
GI	none	Score	.45
Exons	188..312		

Seq. No.	53328	Seq. ID	OJ990714_12.0419.C45

Gene No.	112333	Strand	-
Start	1441	End	4748
Name	OJ990714_12.0419.C45.o1.gp	Method	AAT/GAP
Start	1069	End	1638
GI	uC-osflcyp067f11a1	Score	893
Exons	1069..1365, 1441..1638		
GI Descrip.	'4191785 2.0e-12 (AC005917) putative hydrolase [Arabidopsis thaliana]'		

Seq. No.	53328	Seq. ID	OJ990714_12.0419.C45
Gene No.	112333	Strand	-
Start	1441	End	4748
Name	OJ990714_12.0419.C45.o1.tc	Method	TBLASTX:Cress
Start	1427	End	4056
GI	none	Score	133
Exons	1427..1621, 1453..1617, 1503..1619, 1813..1917, 1817..1918, 2045..2203, 2046..2204, 2693..2821, 2694..2819, 3703..3789, 3704..3760, 3931..4056, 3932..4030		

Seq. No.	53328	Seq. ID	OJ990714_12.0419.C45
Gene No.	112333	Strand	-
Start	1441	End	4748
Name	OJ990714_12.0419.C45.o1.np	Method	AAT/NAP
Start	1429	End	4748
GI	6522542	Score	602
Exons	1429..1615, 1817..1899, 2036..2202, 2695..2816, 3704..3786, 3931..4093, 4713..4748		
GI Descrip.	(AL132955) putative protein [Arabidopsis thaliana]		

Seq. No.	53328	Seq. ID	OJ990714_12.0419.C45
Gene No.	112333	Strand	-
Start	1441	End	4748
Name	OJ990714_12.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	1429	End	2195
GI	none	Score	149
Exons	1429..1617, 1444..1617, 1445..1621, 1448..1621, 1814..1912, 1816..1911, 2025..2195, 2033..2194		

Seq. No.	53328	Seq. ID	OJ990714_12.0419.C45
Gene No.	112333	Strand	-
Start	1441	End	4748
Name	OJ990714_12.0419.C45.o1.gs	Method	GENSCAN
Start	1441	End	4607
GI	none	Score	.73
Exons	1441..1615, 1817..1910, 2038..2202, 2695..2817, 2972..3022, 3931..4052, 4347..4607		

Seq. No.	53328	Seq. ID	OJ990714_12.0419.C45
Gene No.	112333	Strand	-
Start	1441	End	4748
Name	OJ990714_12.0419.C45.o2.gp	Method	AAT/GAP
Start	1874	End	4025
GI	26883_1.R1084	Score	872
Exons	1874..1910, 2038..2202, 2695..2832, 3721..3786, 3931..4025		
GI Descrip.	'4191783 1.0e-14 (AC005917) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	53328	Seq. ID	OJ990714_12.0419.C45
Gene No.	112333	Strand	-
Start	1441	End	4748
Name	OJ990714_12.0419.C45.o2.tm	Method	TBLASTX:Maize
Start	2669	End	4041
GI	none	Score	76
Exons	2669..2812, 2693..2821, 2694..2819, 3699..3788, 3703..3810, 3704..3784, 3931..4041, 3947..4015		

Seq. No.	53329	Seq. ID	OJ990714_12.0419.C46
Gene No.	112334	Strand	+
Start	547	End	3834
Name	OJ990714_12.0419.C46.o1.gs	Method	GENSCAN
Start	547	End	3447
GI	none	Score	.51
Exons	547..710, 737..801, 833..1034, 1155..1272, 1676..1773, 1941..2201, 2892..3173, 3223..3266, 3308..3447		

Seq. No.	53329	Seq. ID	OJ990714_12.0419.C46
Gene No.	112334	Strand	+
Start	547	End	3834
Name	OJ990714_12.0419.C46.o1.np	Method	AAT/NAP
Start	728	End	3834
GI	4758918	Score	607
Exons	728..1034, 1155..1272, 1676..1780, 1879..1979, 2029..2201, 2892..3173, 3267..3346, 3386..3447, 3590..3834		
GI Descrip.	phosphatidylinositol glycan, class B gi|1552169|dbj|BAA07709| (D42138) PIG-B [Homo sapiens]		

Seq. No.	53329	Seq. ID	OJ990714_12.0419.C46
Gene No.	112334	Strand	+
Start	547	End	3834
Name	OJ990714_12.0419.C46.o1.tc	Method	TBLASTX:Cress
Start	960	End	1275
GI	none	Score	121
Exons	960..1037, 961..1035, 1155..1262, 1156..1275		

Seq. No.	53329	Seq. ID	OJ990714_12.0419.C46
Gene No.	112334	Strand	+
Start	547	End	3834
Name	OJ990714_12.0419.C46.o2.tc	Method	TBLASTX:Cress
Start	1873	End	2145
GI	none	Score	145
Exons	1873..1980, 1882..1998, 1899..2024, 2050..2145, 2061..2144		

Seq. No.	53329	Seq. ID	OJ990714_12.0419.C46
Gene No.	112334	Strand	+
Start	547	End	3834
Name	OJ990714_12.0419.C46.o2.tm	Method	TBLASTX:Maize
Start	1878	End	2067
GI	none	Score	264
Exons	1878..2063, 1879..2067		

Seq. No.	53329	Seq. ID	OJ990714_12.0419.C46
Gene No.	112334	Strand	+
Start	547	End	3834
Name	OJ990714_12.0419.C46.o1.tm	Method	TBLASTX:Maize

Start	2898	End	3741
GI	none	Score	442
Exons	2898..3173, 2899..3180, 3264..3446, 3264..3446, 3265..3456, 3265..3447, 3476..3505, 3568..3741, 3587..3739		

Seq. No.	53330	Seq. ID	OJ990714_12.0419.C47
Gene No.	112335	Strand	-
Start	857	End	4944
Name	OJ990714_12.0419.C47.o1.np	Method	AAT/NAP
Start	857	End	4944
GI	6665543	Score	599
Exons	857..1695, 2043..2196, 4863..4944		
GI Descrip.	(AC013289) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	53330	Seq. ID	OJ990714_12.0419.C47
Gene No.	112335	Strand	-
Start	857	End	4944
Name	OJ990714_12.0419.C47.o1.tm	Method	TBLASTX:Maize
Start	858	End	1711
GI	none	Score	36
Exons	858..977, 1049..1177, 1057..1188, 1188..1445, 1198..1380, 1458..1544, 1459..1545, 1532..1711, 1543..1608, 1639..1692		

Seq. No.	53330	Seq. ID	OJ990714_12.0419.C47
Gene No.	112335	Strand	-
Start	857	End	4944
Name	OJ990714_12.0419.C47.o1.ts	Method	TBLASTX:Soybean
Start	1028	End	2191
GI	none	Score	79
Exons	1028..1057, 1057..1176, 1058..1174, 1192..1377, 1197..1424, 1452..1544, 1543..1602, 1547..1603, 1595..1711, 1645..1692, 2105..2191		

Seq. No.	53330	Seq. ID	OJ990714_12.0419.C47
Gene No.	112335	Strand	-
Start	857	End	4944
Name	OJ990714_12.0419.C47.o1.tc	Method	TBLASTX:Cress
Start	1054	End	1702
GI	none	Score	55
Exons	1054..1173, 1115..1168, 1192..1335, 1197..1439, 1198..1380, 1221..1400, 1455..1517, 1455..1544, 1457..1543, 1538..1603, 1543..1602, 1642..1692, 1643..1702		

Seq. No.	53330	Seq. ID	OJ990714_12.0419.C47
Gene No.	112335	Strand	-
Start	857	End	4944
Name	OJ990714_12.0419.C47.o1.tw	Method	TBLASTX:Wheat
Start	1102	End	1508
GI	none	Score	66
Exons	1102..1176, 1103..1174, 1182..1235, 1195..1233, 1249..1380, 1260..1436, 1407..1508		

Seq. No.	53331	Seq. ID	OJ990714_12.0419.C48
Gene No.	112336	Strand	+
Start	2301	End	2843
Name	OJ990714_12.0419.C48.o1.gs	Method	GENSCAN
Start	2301	End	2843

GI	none	Score	.85
Exons	2301..2513, 2565..2843		

Seq. No.	53332	Seq. ID	OJ990714_12.0419.C49
Gene No.	112337	Strand	+
Start	627	End	1019
Name	OJ990714_12.0419.C49.o1.gs	Method	GENSCAN
Start	627	End	1019
GI	none	Score	.65
Exons	627..636, 919..1019		

Seq. No.	53333	Seq. ID	OJ990714_12.0419.C50
Gene No.	112338	Strand	+
Start	1689	End	4837
Name	OJ990714_12.0419.C50.o1.np	Method	AAT/NAP
Start	1689	End	4837
GI	4138137	Score	1452
Exons	1689..1856, 2022..2117, 2203..2315, 2621..2693, 2814..2900, 2987..3130, 3377..3465, 3556..3661, 3743..3830, 4455..4573, 4658..4837		
GI Descrip.	(AJ012796) ss-galactosidase [Lycopersicon esculentum]		

Seq. No.	53333	Seq. ID	OJ990714_12.0419.C50
Gene No.	112338	Strand	+
Start	1689	End	4837
Name	OJ990714_12.0419.C50.o1.gs	Method	GENSCAN
Start	1692	End	4822
GI	none	Score	.89
Exons	1692..1955, 2022..2117, 2203..2315, 2348..2363, 2808..2900, 2987..3162, 3556..3661, 3743..3830, 4455..4573, 4658..4822		

Seq. No.	53333	Seq. ID	OJ990714_12.0419.C50
Gene No.	112338	Strand	+
Start	1689	End	4837
Name	OJ990714_12.0419.C50.o1.tc	Method	TBLASTX:Cress
Start	1770	End	4828
GI	none	Score	126
Exons	1770..1856, 1775..1855, 2019..2117, 2021..2116, 2200..2316, 2202..2315, 2621..2689, 2622..2696, 2805..2903, 2813..2896, 2984..3133, 2986..3129, 3377..3466, 3377..3466, 3378..3467, 3385..3468, 3551..3601, 3557..3661, 3568..3660, 3623..3691, 3727..3831, 3737..3832, 3742..3798, 4438..4563, 4439..4573, 4476..4580, 4655..4825, 4663..4824, 4751..4828		

Seq. No.	53333	Seq. ID	OJ990714_12.0419.C50
Gene No.	112338	Strand	+
Start	1689	End	4837
Name	OJ990714_12.0419.C50.o1.tm	Method	TBLASTX:Maize
Start	1770	End	4827
GI	none	Score	136
Exons	1770..1856, 1772..1855, 1850..1891, 2016..2138, 2019..2132, 2053..2160, 2190..2315, 2199..2315, 2200..2316, 2604..2687, 2621..2695, 2622..2690, 2805..2903, 2807..2902, 2981..3124, 2984..3139, 3376..3465, 3377..3466, 3557..3661, 3559..3660, 3737..3838, 3742..3798, 4439..4573, 4453..4563, 4663..4827, 4664..4825		

Seq. No.	53333	Seq. ID	OJ990714_12.0419.C50
Gene No.	112338	Strand	+
Start	1689	End	4837
Name	OJ990714_12.0419.C50.o2.ts	Method	TBLASTX:Soybean
Start	1770	End	2849
GI	none	Score	131
Exons	1770..1856, 1775..1852, 2019..2117, 2021..2113, 2199..2315, 2200..2316, 2621..2695, 2622..2690, 2624..2695, 2805..2849, 2807..2839		

Seq. No.	53333	Seq. ID	OJ990714_12.0419.C50
Gene No.	112338	Strand	+
Start	1689	End	4837
Name	OJ990714_12.0419.C50.o1.gp	Method	AAT/GAP
Start	2043	End	3277
GI	3766558	Score	1104
Exons	2043..2117, 2203..2315, 2621..2687, 2808..2900, 2987..3277		
GI Descrip.	1352078/sp|P48981|BGAL_MALDO 2.0e-74 BETA-GALACTOSIDASE PRECURSOR (LACTASE) (EXO-(1-->4)-BETA-D-GALACTANASE) >gi_507278 (L29451) b-galactosidase-related protein; putative [Malus domestica]		

Seq. No.	53333	Seq. ID	OJ990714_12.0419.C50
Gene No.	112338	Strand	+
Start	1689	End	4837
Name	OJ990714_12.0419.C50.o1.ts	Method	TBLASTX:Soybean
Start	2850	End	4821
GI	none	Score	64
Exons	2850..2903, 2984..3139, 2986..3126, 3376..3465, 3377..3466, 3377..3466, 3379..3468, 3387..3467, 3529..3660, 3557..3661, 3737..3832, 3742..3798, 3743..3832, 4438..4563, 4439..4573, 4462..4578, 4464..4580, 4655..4819, 4663..4821		

Seq. No.	53333	Seq. ID	OJ990714_12.0419.C50
Gene No.	112338	Strand	+
Start	1689	End	4837
Name	OJ990714_12.0419.C50.o1.tw	Method	TBLASTX:Wheat
Start	3638	End	4825
GI	none	Score	44
Exons	3638..3661, 3737..3832, 3742..3798, 3743..3832, 4438..4560, 4439..4573, 4649..4825, 4687..4824		

Seq. No.	53333	Seq. ID	OJ990714_12.0419.C50
Gene No.	112338	Strand	+
Start	1689	End	4837
Name	OJ990714_12.0419.C50.o2.gp	Method	AAT/GAP
Start	4691	End	4837
GI	426057	Score	257
Exons	4691..4837		
GI Descrip.	1168654/sp|P45582|BGAL_ASPOF 2.0e-28 BETA-GALACTOSIDASE PRECURSOR (LACTASE) >gi_542198_pir__S41889 beta-galactosidase (EC 3.2.1.23) - garden asparagus >gi_452712_emb_CAA54525_ (X77319) beta-galactosidase [Asparagus officinalis]		

Seq. No.	53334	Seq. ID	OJ990714_12.0419.C51
Gene No.	112339	Strand	+
Start	1	End	1645

Name	OJ990714_12.0419.C51.o1.np	Method	AAT/NAP
Start	1	End	1464
GI	1168654	Score	1220
Exons	1..165, 260..370, 456..557, 640..845, 937..1255, 1346..1464		
GI Descrip.	BETA-GALACTOSIDASE PRECURSOR (LACTASE) gi|542198|pir||S41889 beta-galactosidase (EC 3.2.1.23) - garden asparagus gi|452712|emb|CAA54525| (X77319) beta-galactosidase [Asparagus officinalis]		

Seq. No.	53334	Seq. ID	OJ990714_12.0419.C51
Gene No.	112339	Strand	+
Start	1	End	1645
Name	OJ990714_12.0419.C51.o1.gs	Method	GENSCAN
Start	56	End	1645
GI	none	Score	.94
Exons	56..165, 260..370, 456..557, 640..845, 1190..1255, 1357..1383, 1510..1645		

Seq. No.	53334	Seq. ID	OJ990714_12.0419.C51
Gene No.	112339	Strand	+
Start	1	End	1645
Name	OJ990714_12.0419.C51.o1.gp	Method	AAT/GAP
Start	338	End	866
GI	701771	Score	584
Exons	338..370, 456..557, 640..866		
GI Descrip.	1168654/sp|P45582|BGAL_ASPOF 9.0e-37 BETA-GALACTOSIDASE PRECURSOR (LACTASE) >gi_542198_pir__S41889 beta-galactosidase (EC 3.2.1.23) - garden asparagus >gi_452712_emb_CAA54525_ (X77319) beta-galactosidase [Asparagus officinalis]		

Seq. No.	53334	Seq. ID	OJ990714_12.0419.C51
Gene No.	112340	Strand	+
Start	1560	End	1992
Name	OJ990714_12.0419.C51.o2.gp	Method	AAT/GAP
Start	1560	End	1992
GI	3768727	Score	784
Exons	1560..1992		

Seq. No.	53334	Seq. ID	OJ990714_12.0419.C51
Gene No.	112341	Strand	-
Start	2018	End	2850
Name	OJ990714_12.0419.C51.o2.gs	Method	GENSCAN
Start	2018	End	2850
GI	none	Score	.9
Exons	2018..2355, 2754..2850		

Seq. No.	53334	Seq. ID	OJ990714_12.0419.C51
Gene No.	112342	Strand	-
Start	3208	End	5664
Name	OJ990714_12.0419.C51.o3.gs	Method	GENSCAN
Start	3208	End	5664
GI	none	Score	.41
Exons	3208..3816, 4441..5664		

Seq. No.	53334	Seq. ID	OJ990714_12.0419.C51
Gene No.	112342	Strand	-
Start	3208	End	5664

Name	OJ990714_12.0419.C51.o2.np	Method	AAT/NAP
Start	5191	End	5617
GI	5257260	Score	215
Exons	5191..5617		
GI Descrip.	(AP000364) Similar to sequence of BAC F7G19 from Arabidopsis thaliana. (AC000106) [Oryza sativa]		

Seq. No.	53334	Seq. ID	OJ990714_12.0419.C51
Gene No.	112343	Strand	-
Start	10079	End	10344
Name	OJ990714_12.0419.C51.o1.ts	Method	TBLASTX:Soybean
Start	42	End	1466
GI	none	Score	79
Exons	42..158, 43..165, 259..360, 260..373, 453..518, 455..517, 531..557, 645..692, 646..846, 651..848, 670..849, 936..1028, 937..1032, 938..1036, 1032..1073, 1107..1235, 1108..1254, 1112..1255, 1338..1466, 1339..1461		

Seq. No.	53334	Seq. ID	OJ990714_12.0419.C51
Gene No.	112343	Strand	-
Start	10079	End	10344
Name	OJ990714_12.0419.C51.o1.tc	Method	TBLASTX:Cress
Start	49	End	1440
GI	none	Score	116
Exons	49..165, 259..372, 259..372, 260..373, 260..490, 453..524, 455..523, 466..525, 467..529, 530..562, 531..557, 645..692, 646..846, 661..855, 937..1032, 938..1039, 1032..1073, 1114..1221, 1115..1243, 1378..1440		

Seq. No.	53334	Seq. ID	OJ990714_12.0419.C51
Gene No.	112343	Strand	-
Start	10079	End	10344
Name	OJ990714_12.0419.C51.o1.tm	Method	TBLASTX:Maize
Start	49	End	1461
GI	none	Score	101
Exons	49..165, 259..372, 260..373, 453..518, 455..517, 534..557, 640..753, 640..744, 757..846, 937..1005, 938..1006, 1029..1070, 1046..1069, 1082..1255, 1120..1236, 1348..1461		

Seq. No.	53334	Seq. ID	OJ990714_12.0419.C51
Gene No.	112343	Strand	-
Start	10079	End	10344
Name	OJ990714_12.0419.C51.o2.tc	Method	TBLASTX:Cress
Start	5083	End	5625
GI	none	Score	105
Exons	5083..5148, 5263..5625, 5303..5608		

Seq. No.	53334	Seq. ID	OJ990714_12.0419.C51
Gene No.	112343	Strand	-
Start	10079	End	10344
Name	OJ990714_12.0419.C51.o2.tm	Method	TBLASTX:Maize
Start	5290	End	5625
GI	none	Score	90
Exons	5290..5373, 5369..5608, 5383..5625		

Seq. No.	53334	Seq. ID	OJ990714_12.0419.C51
Gene No.	112343	Strand	-

Start	10079	End	10344
Name	OJ990714_12.0419.C51.o2.ts	Method	TBLASTX:Soybean
Start	5290	End	5625
GI	none	Score	112
Exons	5290..5625, 5312..5608		

Seq. No.	53334	Seq. ID	OJ990714_12.0419.C51
Gene No.	112343	Strand	-
Start	10079	End	10344
Name	OJ990714_12.0419.C51.o4.gs	Method	GENSCAN
Start	10079	End	10344
GI	none	Score	.79
Exons	10079..10344		

Seq. No.	53335	Seq. ID	OJ990714_12.0419.C52
Gene No.	112344	Strand	-
Start	717	End	834
Name	OJ990714_12.0419.C52.o1.gs	Method	GENSCAN
Start	717	End	834
GI	none	Score	.46
Exons	717..834		

Seq. No.	53336	Seq. ID	OJ990714_12.0419.C53
Gene No.	112345	Strand	+
Start	1	End	1000
Name	OJ990714_12.0419.C53.o1.np	Method	AAT/NAP
Start	1	End	1000
GI	7340868	Score	82
Exons	1..32, 853..1000		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	53336	Seq. ID	OJ990714_12.0419.C53
Gene No.	112345	Strand	+
Start	1	End	1000
Name	OJ990714_12.0419.C53.o1.gs	Method	GENSCAN
Start	853	End	999
GI	none	Score	.58
Exons	853..999		

Seq. No.	53337	Seq. ID	OJ990714_12.0419.C58
Gene No.	112346	Strand	-
Start	501	End	639
Name	OJ990714_12.0419.C58.o1.gs	Method	GENSCAN
Start	501	End	639
GI	none	Score	.65
Exons	501..639		

Seq. No.	53338	Seq. ID	OJ990714_12.0419.C59
Gene No.	112347	Strand	+
Start	1023	End	1499
Name	OJ990714_12.0419.C59.o1.gs	Method	GENSCAN
Start	1023	End	1499
GI	none	Score	.63
Exons	1023..1157, 1338..1499		

Seq. No.	53339	Seq. ID	OJ990714_12.0419.C61
Gene No.	112348	Strand	+

Start	785	End	1174
Name	OJ990714_12.0419.C61.o1.gp	Method	AAT/GAP
Start	785	End	1174
GI	LIB3475-008-P1-K1-D5	Score	735
Exons	785..1174		
GI Descrip.	'5670155/gb|AF161269.1|AF161269 4.0e-86 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	53339	Seq. ID	OJ990714_12.0419.C61
Gene No.	112349	Strand	+
Start	2564	End	4200
Name	OJ990714_12.0419.C61.o1.gs	Method	GENSCAN
Start	2564	End	4200
GI	none	Score	.55
Exons	2564..2631, 2744..2906, 3177..3291, 3293..4200		

Seq. No.	53339	Seq. ID	OJ990714_12.0419.C61
Gene No.	112349	Strand	+
Start	2564	End	4200
Name	OJ990714_12.0419.C61.o2.gp	Method	AAT/GAP
Start	3212	End	3611
GI	61948_1.R1084	Score	753
Exons	3212..3611		
GI Descrip.	'1669599/dbj|BAA13687| 1.0e-16 (D88746) AR791 [Arabidopsis thaliana]'		

Seq. No.	53339	Seq. ID	OJ990714_12.0419.C61
Gene No.	112349	Strand	+
Start	2564	End	4200
Name	OJ990714_12.0419.C61.o1.tm	Method	TBLASTX:Maize
Start	3224	End	3435
GI	none	Score	82
Exons	3224..3271, 3225..3272, 3225..3272, 3275..3298, 3278..3349, 3280..3306, 3344..3433, 3359..3430, 3409..3435		

Seq. No.	53340	Seq. ID	OJ990714_12.0419.C62
Gene No.	112350	Strand	+
Start	260	End	1233
Name	OJ990714_12.0419.C62.o1.np	Method	AAT/NAP
Start	260	End	1233
GI	7248407	Score	52
Exons	260..408, 1157..1233		
GI Descrip.	(AP001389) Similar to Escherichia coli thermosensitive gluconokinase (P39208) [Oryza sativa]		

Seq. No.	53340	Seq. ID	OJ990714_12.0419.C62
Gene No.	112351	Strand	-
Start	1416	End	1901
Name	OJ990714_12.0419.C62.o2.np	Method	AAT/NAP
Start	1416	End	1901
GI	6069668	Score	650
Exons	1416..1658, 1694..1901		
GI Descrip.	(AP000616) hypothetical protein [Oryza sativa]		

Seq. No.	53340	Seq. ID	OJ990714_12.0419.C62
Gene No.	112352	Strand	-
Start	2983	End	3437

Name	OJ990714_12.0419.C62.o3.np	Method	AAT/NAP
Start	2974	End	3437
GI	4191788	Score	405
Exons	2974..3437		
GI Descrip.	(AC005917) 1-aminocyclopropane-1-carboxylate oxidase [Arabidopsis thaliana]		

Seq. No.	53340	Seq. ID	OJ990714_12.0419.C62
Gene No.	112352	Strand	-
Start	2983	End	3437
Name	OJ990714_12.0419.C62.o2.gs	Method	GENSCAN
Start	2983	End	3330
GI	none	Score	1
Exons	2983..3330		

Seq. No.	53340	Seq. ID	OJ990714_12.0419.C62
Gene No.	112352	Strand	-
Start	2983	End	3437
Name	OJ990714_12.0419.C62.o1.tc	Method	TBLASTX:Cress
Start	2992	End	3431
GI	none	Score	80
Exons	2992..3039, 3130..3288, 3131..3286, 3289..3378, 3293..3379, 3402..3431		

Seq. No.	53340	Seq. ID	OJ990714_12.0419.C62
Gene No.	112352	Strand	-
Start	2983	End	3437
Name	OJ990714_12.0419.C62.o1.tm	Method	TBLASTX:Maize
Start	2992	End	3385
GI	none	Score	93
Exons	2992..3039, 3130..3288, 3131..3286, 3289..3384, 3293..3385		

Seq. No.	53340	Seq. ID	OJ990714_12.0419.C62
Gene No.	112352	Strand	-
Start	2983	End	3437
Name	OJ990714_12.0419.C62.o1.ts	Method	TBLASTX:Soybean
Start	2992	End	3385
GI	none	Score	93
Exons	2992..3039, 3130..3288, 3131..3286, 3289..3384, 3293..3385		

Seq. No.	53341	Seq. ID	OJ990714_12.0419.C63
Gene No.	112353	Strand	-
Start	1	End	584
Name	OJ990714_12.0419.C63.o1.gp	Method	AAT/GAP
Start	1	End	584
GI	69959_1.R1084	Score	550
Exons	1..74, 364..584		
GI Descrip.	'4191788 3.0e-13 (AC005917) putative 1-aminocyclopropane-1-carboxylate oxidase [Arabidopsis thaliana]'		

Seq. No.	53341	Seq. ID	OJ990714_12.0419.C63
Gene No.	112353	Strand	-
Start	1	End	584
Name	OJ990714_12.0419.C63.o1.np	Method	AAT/NAP
Start	1	End	471
GI	2129503	Score	109

Exons	1..74, 364..471		
GI Descrip.	ACC oxidase (clone ACO2) oxidase - muskmelon gi|1183898|emb|CAA64798| (X95552) ACC oxidase [Cucumis melo]		
Seq. No.	53341	Seq. ID	OJ990714_12.0419.C63
Gene No.	112353	Strand	-
Start	1	End	584
Name	OJ990714_12.0419.C63.o1.gs	Method	GENSCAN
Start	364	End	471
GI	none	Score	.76
Exons	364..471		
Seq. No.	53341	Seq. ID	OJ990714_12.0419.C63
Gene No.	112354	Strand	-
Start	996	End	1084
Name	OJ990714_12.0419.C63.o2.gs	Method	GENSCAN
Start	996	End	1084
GI	none	Score	.55
Exons	996..1084		
Seq. No.	53342	Seq. ID	OJ990714_12.0419.C66
Gene No.	112355	Strand	+
Start	1	End	1607
Name	OJ990714_12.0419.C66.o1.np	Method	AAT/NAP
Start	1	End	1607
GI	5042447	Score	1689
Exons	1..1607		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	53342	Seq. ID	OJ990714_12.0419.C66
Gene No.	112355	Strand	+
Start	1	End	1607
Name	OJ990714_12.0419.C66.o1.gs	Method	GENSCAN
Start	29	End	1605
GI	none	Score	.6
Exons	29..1262, 1454..1605		
Seq. No.	53342	Seq. ID	OJ990714_12.0419.C66
Gene No.	112355	Strand	+
Start	1	End	1607
Name	OJ990714_12.0419.C66.o2.tw	Method	TBLASTX:Wheat
Start	506	End	859
GI	none	Score	239
Exons	506..859		
Seq. No.	53342	Seq. ID	OJ990714_12.0419.C66
Gene No.	112355	Strand	+
Start	1	End	1607
Name	OJ990714_12.0419.C66.o1.tw	Method	TBLASTX:Wheat
Start	991	End	1422
GI	none	Score	471
Exons	991..1401, 992..1396, 1102..1422		
Seq. No.	53342	Seq. ID	OJ990714_12.0419.C66
Gene No.	112355	Strand	+
Start	1	End	1607
Name	OJ990714_12.0419.C66.o1.tm	Method	TBLASTX:Maize

Start	1001	End	1293
GI	none	Score	328
Exons	1001..1291, 1003..1293		

Seq. No.	53342	Seq. ID	OJ990714_12.0419.C66
Gene No.	112355	Strand	+
Start	1	End	1607
Name	OJ990714_12.0419.C66.o1.ts	Method	TBLASTX:Soybean
Start	1028	End	1342
GI	none	Score	194
Exons	1028..1342		

Seq. No.	53343	Seq. ID	OJ990714_12.0419.C67
Gene No.	112356	Strand	+
Start	1	End	2170
Name	OJ990714_12.0419.C67.o1.np	Method	AAT/NAP
Start	1	End	2170
GI	4680179	Score	3174
Exons	1..2170		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	53343	Seq. ID	OJ990714_12.0419.C67
Gene No.	112356	Strand	+
Start	1	End	2170
Name	OJ990714_12.0419.C67.o4.tw	Method	TBLASTX:Wheat
Start	3	End	219
GI	none	Score	294
Exons	3..206, 4..219, 70..219		

Seq. No.	53343	Seq. ID	OJ990714_12.0419.C67
Gene No.	112356	Strand	+
Start	1	End	2170
Name	OJ990714_12.0419.C67.o2.ts	Method	TBLASTX:Soybean
Start	4	End	204
GI	none	Score	265
Exons	4..204, 6..194, 52..201		

Seq. No.	53343	Seq. ID	OJ990714_12.0419.C67
Gene No.	112356	Strand	+
Start	1	End	2170
Name	OJ990714_12.0419.C67.o4.tm	Method	TBLASTX:Maize
Start	30	End	285
GI	none	Score	283
Exons	30..284, 31..285		

Seq. No.	53343	Seq. ID	OJ990714_12.0419.C67
Gene No.	112356	Strand	+
Start	1	End	2170
Name	OJ990714_12.0419.C67.o3.tw	Method	TBLASTX:Wheat
Start	220	End	645
GI	none	Score	599
Exons	220..645, 222..638		

Seq. No.	53343	Seq. ID	OJ990714_12.0419.C67
Gene No.	112356	Strand	+
Start	1	End	2170
Name	OJ990714_12.0419.C67.o3.ts	Method	TBLASTX:Soybean

Start	229	End	474
GI	none	Score	204
Exons	229..474		

Seq. No.	53343	Seq. ID	OJ990714_12.0419.C67
Gene No.	112356	Strand	+
Start	1	End	2170
Name	OJ990714_12.0419.C67.o2.tm	Method	TBLASTX:Maize
Start	292	End	645
GI	none	Score	459
Exons	292..645, 292..630, 297..638		

Seq. No.	53343	Seq. ID	OJ990714_12.0419.C67
Gene No.	112356	Strand	+
Start	1	End	2170
Name	OJ990714_12.0419.C67.o2.tw	Method	TBLASTX:Wheat
Start	692	End	1214
GI	none	Score	600
Exons	692..1213, 856..1209, 960..1214		

Seq. No.	53343	Seq. ID	OJ990714_12.0419.C67
Gene No.	112356	Strand	+
Start	1	End	2170
Name	OJ990714_12.0419.C67.o1.tc	Method	TBLASTX:Cress
Start	911	End	1237
GI	none	Score	90
Exons	911..1093, 1094..1237, 1096..1236		

Seq. No.	53343	Seq. ID	OJ990714_12.0419.C67
Gene No.	112356	Strand	+
Start	1	End	2170
Name	OJ990714_12.0419.C67.o1.ts	Method	TBLASTX:Soybean
Start	1001	End	1261
GI	none	Score	294
Exons	1001..1261, 1012..1260		

Seq. No.	53343	Seq. ID	OJ990714_12.0419.C67
Gene No.	112356	Strand	+
Start	1	End	2170
Name	OJ990714_12.0419.C67.o3.tm	Method	TBLASTX:Maize
Start	1060	End	1351
GI	none	Score	408
Exons	1060..1347, 1061..1351		

Seq. No.	53343	Seq. ID	OJ990714_12.0419.C67
Gene No.	112356	Strand	+
Start	1	End	2170
Name	OJ990714_12.0419.C67.o1.tw	Method	TBLASTX:Wheat
Start	1220	End	1846
GI	none	Score	723
Exons	1220..1846, 1279..1728, 1786..1845		

Seq. No.	53343	Seq. ID	OJ990714_12.0419.C67
Gene No.	112356	Strand	+
Start	1	End	2170
Name	OJ990714_12.0419.C67.o1.tm	Method	TBLASTX:Maize
Start	1399	End	1984

GI	none	Score	229
Exons	1399..1554, 1400..1561, 1558..1731, 1559..1984, 1718..1963, 1786..1983		

Seq. No.	53343	Seq. ID	OJ990714_12.0419.C67
Gene No.	112356	Strand	+
Start	1	End	2170
Name	OJ990714_12.0419.C67.o5.tw	Method	TBLASTX:Wheat
Start	1846	End	1972
GI	none	Score	186
Exons	1846..1971, 1847..1972		

Seq. No.	53344	Seq. ID	OJ990714_12.0419.C68
Gene No.	112357	Strand	+
Start	208	End	6290
Name	OJ990714_12.0419.C68.o1.gs	Method	GENSCAN
Start	208	End	6241
GI	none	Score	.66
Exons	208..300, 2447..2489, 2539..2867, 2905..3108, 3162..3335, 5627..6241		

Seq. No.	53344	Seq. ID	OJ990714_12.0419.C68
Gene No.	112357	Strand	+
Start	208	End	6290
Name	OJ990714_12.0419.C68.o2.np	Method	AAT/NAP
Start	2510	End	4451
GI	6063554	Score	174
Exons	2510..2759, 2883..3124, 4276..4451		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53344	Seq. ID	OJ990714_12.0419.C68
Gene No.	112357	Strand	+
Start	208	End	6290
Name	OJ990714_12.0419.C68.o3.np	Method	AAT/NAP
Start	5627	End	6290
GI	6983861	Score	1134
Exons	5627..6290		
GI Descrip.	(AP001168) Similar to gypsy-type retrotransposon RIRE8B DNA, internal region (AB014741) [Oryza sativa]		

Seq. No.	53344	Seq. ID	OJ990714_12.0419.C68
Gene No.	112358	Strand	-
Start	1386	End	3376
Name	OJ990714_12.0419.C68.o1.np	Method	AAT/NAP
Start	1386	End	3376
GI	5852179	Score	233
Exons	1386..1424, 2732..3059, 3134..3376		
GI Descrip.	(AL117265) zhb0009.1 [Oryza sativa]		

Seq. No.	53345	Seq. ID	OJ990714_12.0419.C69
Gene No.	112359	Strand	+
Start	617	End	867
Name	OJ990714_12.0419.C69.o1.np	Method	AAT/NAP
Start	617	End	867
GI	7228441	Score	130

Exons	617..867		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	53346	Seq. ID	OJ990714_12.0419.C70
Gene No.	112360	Strand	-
Start	785	End	907
Name	OJ990714_12.0419.C70.o1.gs	Method	GENSCAN
Start	785	End	907
GI	none	Score	.7
Exons	785..907		

Seq. No.	53347	Seq. ID	OJ990714_12.0419.C71
Gene No.	112361	Strand	-
Start	434	End	1223
Name	OJ990714_12.0419.C71.o1.np	Method	AAT/NAP
Start	434	End	1223
GI	6815099	Score	74
Exons	434..565, 1151..1223		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	53348	Seq. ID	OJ990714_12.0419.C76
Gene No.	112362	Strand	+
Start	4022	End	8948
Name	OJ990714_12.0419.C76.o3.np	Method	AAT/NAP
Start	4012	End	6173
GI	6721561	Score	845
Exons	4012..4080, 5017..5202, 5273..5331, 5412..6173		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53348	Seq. ID	OJ990714_12.0419.C76
Gene No.	112362	Strand	+
Start	4022	End	8948
Name	OJ990714_12.0419.C76.o2.gs	Method	GENSCAN
Start	4022	End	8948
GI	none	Score	.77
Exons	4022..4655, 4824..4948, 5017..5202, 5273..5331, 5391..5634, 5718..6148, 6307..6452, 6557..6734, 6747..6904, 7236..7307, 7721..7825, 8214..8447, 8622..8682, 8762..8948		

Seq. No.	53348	Seq. ID	OJ990714_12.0419.C76
Gene No.	112362	Strand	+
Start	4022	End	8948
Name	OJ990714_12.0419.C76.o2.np	Method	AAT/NAP
Start	4022	End	5671
GI	6721558	Score	218
Exons	4022..4121, 4824..5057, 5568..5671		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	53348	Seq. ID	OJ990714_12.0419.C76
Gene No.	112363	Strand	-
Start	2225	End	3564

Name	OJ990714_12.0419.C76.o1.np	Method	AAT/NAP
Start	1457	End	3564
GI	7523517	Score	183
Exons	1457..1496, 3060..3098, 3249..3564		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	53348	Seq. ID	OJ990714_12.0419.C76
Gene No.	112363	Strand	-
Start	2225	End	3564
Name	OJ990714_12.0419.C76.o1.gs	Method	GENSCAN
Start	2225	End	2953
GI	none	Score	.78
Exons	2225..2249, 2862..2953		

Seq. No.	53348	Seq. ID	OJ990714_12.0419.C76
Gene No.	112364	Strand	-
Start	7589	End	9020
Name	OJ990714_12.0419.C76.o4.np	Method	AAT/NAP
Start	7589	End	9020
GI	5902445	Score	1182
Exons	7589..9020		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	53348	Seq. ID	OJ990714_12.0419.C76
Gene No.	112364	Strand	-
Start	7589	End	9020
Name	OJ990714_12.0419.C76.o1.tw	Method	TBLASTX:Wheat
Start	7598	End	8194
GI	none	Score	61
Exons	7598..7729, 7599..7724, 7754..8194, 7950..8057, 8103..8192		

Seq. No.	53348	Seq. ID	OJ990714_12.0419.C76
Gene No.	112364	Strand	-
Start	7589	End	9020
Name	OJ990714_12.0419.C76.o2.tm	Method	TBLASTX:Maize
Start	7640	End	7885
GI	none	Score	51
Exons	7640..7717, 7668..7727, 7712..7831, 7718..7885		

Seq. No.	53348	Seq. ID	OJ990714_12.0419.C76
Gene No.	112364	Strand	-
Start	7589	End	9020
Name	OJ990714_12.0419.C76.o2.tw	Method	TBLASTX:Wheat
Start	8228	End	8582
GI	none	Score	173
Exons	8228..8581, 8238..8480, 8339..8581, 8526..8582		

Seq. No.	53348	Seq. ID	OJ990714_12.0419.C76
Gene No.	112364	Strand	-
Start	7589	End	9020
Name	OJ990714_12.0419.C76.o1.tm	Method	TBLASTX:Maize
Start	8408	End	8701
GI	none	Score	171
Exons	8408..8701, 8409..8675		

Seq. No.	53349	Seq. ID	OJ990714_12.0419.C77
Gene No.	112365	Strand	-

Start	1	End	3101
Name	OJ990714_12.0419.C77.o1.np	Method	AAT/NAP
Start	1	End	3101
GI	7228457	Score	1484
Exons	1..188, 255..1923, 1978..3101		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	53349	Seq. ID	OJ990714_12.0419.C77
Gene No.	112365	Strand	-
Start	1	End	3101
Name	OJ990714_12.0419.C77.o5.tw	Method	TBLASTX:Wheat
Start	3	End	272
GI	none	Score	84
Exons	3..272, 52..243		

Seq. No.	53349	Seq. ID	OJ990714_12.0419.C77
Gene No.	112365	Strand	-
Start	1	End	3101
Name	OJ990714_12.0419.C77.o1.gs	Method	GENSCAN
Start	47	End	665
GI	none	Score	.76
Exons	47..665		

Seq. No.	53349	Seq. ID	OJ990714_12.0419.C77
Gene No.	112365	Strand	-
Start	1	End	3101
Name	OJ990714_12.0419.C77.o4.tw	Method	TBLASTX:Wheat
Start	276	End	687
GI	none	Score	107
Exons	276..329, 336..452, 460..687, 462..686		

Seq. No.	53349	Seq. ID	OJ990714_12.0419.C77
Gene No.	112365	Strand	-
Start	1	End	3101
Name	OJ990714_12.0419.C77.o1.ts	Method	TBLASTX:Soybean
Start	777	End	1203
GI	none	Score	134
Exons	777..1076, 1081..1203		

Seq. No.	53349	Seq. ID	OJ990714_12.0419.C77
Gene No.	112365	Strand	-
Start	1	End	3101
Name	OJ990714_12.0419.C77.o2.tw	Method	TBLASTX:Wheat
Start	832	End	1257
GI	none	Score	126
Exons	832..1089, 834..1076, 1078..1257, 1079..1147, 1084..1152, 1116..1256		

Seq. No.	53349	Seq. ID	OJ990714_12.0419.C77
Gene No.	112365	Strand	-
Start	1	End	3101
Name	OJ990714_12.0419.C77.o2.tm	Method	TBLASTX:Maize
Start	930	End	1338
GI	none	Score	226
Exons	930..1076, 1081..1338		

Seq. No.	53349	Seq. ID	OJ990714_12.0419.C77
Gene No.	112365	Strand	-
Start	1	End	3101
Name	OJ990714_12.0419.C77.o2.gs	Method	GENSCAN
Start	970	End	2585
GI	none	Score	.56
Exons	970..1512, 1582..1782, 1951..2585		

Seq. No.	53349	Seq. ID	OJ990714_12.0419.C77
Gene No.	112365	Strand	-
Start	1	End	3101
Name	OJ990714_12.0419.C77.o1.tm	Method	TBLASTX:Maize
Start	1342	End	1698
GI	none	Score	204
Exons	1342..1698, 1343..1663		

Seq. No.	53349	Seq. ID	OJ990714_12.0419.C77
Gene No.	112365	Strand	-
Start	1	End	3101
Name	OJ990714_12.0419.C77.o1.tw	Method	TBLASTX:Wheat
Start	1373	End	1827
GI	none	Score	342
Exons	1373..1720, 1375..1827, 1385..1819, 1390..1827		

Seq. No.	53349	Seq. ID	OJ990714_12.0419.C77
Gene No.	112365	Strand	-
Start	1	End	3101
Name	OJ990714_12.0419.C77.o2.ts	Method	TBLASTX:Soybean
Start	1423	End	1788
GI	none	Score	103
Exons	1423..1560, 1564..1788		

Seq. No.	53349	Seq. ID	OJ990714_12.0419.C77
Gene No.	112365	Strand	-
Start	1	End	3101
Name	OJ990714_12.0419.C77.o3.tw	Method	TBLASTX:Wheat
Start	2020	End	2475
GI	none	Score	45
Exons	2020..2256, 2030..2095, 2168..2254, 2293..2475, 2294..2467		

Seq. No.	53350	Seq. ID	OJ990714_12.0419.C78
Gene No.	112366	Strand	-
Start	1	End	1024
Name	OJ990714_12.0419.C78.o1.np	Method	AAT/NAP
Start	1	End	1024
GI	5042454	Score	136
Exons	1..277, 527..642, 944..1024		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	53350	Seq. ID	OJ990714_12.0419.C78
Gene No.	112366	Strand	-
Start	1	End	1024
Name	OJ990714_12.0419.C78.o1.gs	Method	GENSCAN
Start	120	End	578
GI	none	Score	.81
Exons	120..578		

Seq. No.	53351	Seq. ID	OJ990714_12.0419.C79
Gene No.	112367	Strand	-
Start	1	End	466
Name	OJ990714_12.0419.C79.o1.np	Method	AAT/NAP
Start	1	End	466
GI	7523517	Score	181
Exons	1..94, 151..466		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	53352	Seq. ID	OJ990714_12.0419.C80
Gene No.	112368	Strand	+
Start	872	End	3545
Name	OJ990714_12.0419.C80.o1.np	Method	AAT/NAP
Start	872	End	3545
GI	5902445	Score	1844
Exons	872..1013, 1568..3221, 3261..3545		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	53352	Seq. ID	OJ990714_12.0419.C80
Gene No.	112368	Strand	+
Start	872	End	3545
Name	OJ990714_12.0419.C80.o1.tm	Method	TBLASTX:Maize
Start	1561	End	1860
GI	none	Score	353
Exons	1561..1860, 1563..1859, 1570..1860		

Seq. No.	53352	Seq. ID	OJ990714_12.0419.C80
Gene No.	112368	Strand	+
Start	872	End	3545
Name	OJ990714_12.0419.C80.o2.tw	Method	TBLASTX:Wheat
Start	1566	End	1830
GI	none	Score	351
Exons	1566..1829, 1567..1830		

Seq. No.	53352	Seq. ID	OJ990714_12.0419.C80
Gene No.	112368	Strand	+
Start	872	End	3545
Name	OJ990714_12.0419.C80.o2.tm	Method	TBLASTX:Maize
Start	1888	End	2271
GI	none	Score	329
Exons	1888..2271, 1937..2017, 2055..2270		

Seq. No.	53352	Seq. ID	OJ990714_12.0419.C80
Gene No.	112368	Strand	+
Start	872	End	3545
Name	OJ990714_12.0419.C80.o1.tw	Method	TBLASTX:Wheat
Start	1945	End	2369
GI	none	Score	471
Exons	1945..2367, 1946..2101, 1948..2349, 2055..2369		

Seq. No.	53352	Seq. ID	OJ990714_12.0419.C80
Gene No.	112368	Strand	+
Start	872	End	3545
Name	OJ990714_12.0419.C80.o1.ts	Method	TBLASTX:Soybean
Start	1999	End	2424
GI	none	Score	322

Exons	1999..2424, 2058..2183		
Seq. No.	53352	Seq. ID	OJ990714_12.0419.C80
Gene No.	112368	Strand	+
Start	872	End	3545
Name	OJ990714_12.0419.C80.o3.tw	Method	TBLASTX:Wheat
Start	2514	End	2922
GI	none	Score	210
Exons	2514..2741, 2515..2739, 2749..2922, 2857..2922		
Seq. No.	53352	Seq. ID	OJ990714_12.0419.C80
Gene No.	112368	Strand	+
Start	872	End	3545
Name	OJ990714_12.0419.C80.o4.tw	Method	TBLASTX:Wheat
Start	2961	End	3282
GI	none	Score	179
Exons	2961..3215, 2983..3282		
Seq. No.	53353	Seq. ID	OJ990714_12.0419.C81
Gene No.	112369	Strand	+
Start	1	End	2716
Name	OJ990714_12.0419.C81.o1.np	Method	AAT/NAP
Start	1	End	855
GI	7228457	Score	841
Exons	1..855		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	53353	Seq. ID	OJ990714_12.0419.C81
Gene No.	112369	Strand	+
Start	1	End	2716
Name	OJ990714_12.0419.C81.o1.gs	Method	GENSCAN
Start	77	End	2716
GI	none	Score	.78
Exons	77..255, 292..464, 510..837, 1406..1513, 1518..1743, 1764..2138, 2274..2716		
Seq. No.	53353	Seq. ID	OJ990714_12.0419.C81
Gene No.	112370	Strand	+
Start	4735	End	7020
Name	OJ990714_12.0419.C81.o3.gs	Method	GENSCAN
Start	4735	End	6191
GI	none	Score	.74
Exons	4735..4882, 5563..5608, 5814..5943, 6180..6191		
Seq. No.	53353	Seq. ID	OJ990714_12.0419.C81
Gene No.	112370	Strand	+
Start	4735	End	7020
Name	OJ990714_12.0419.C81.o4.np	Method	AAT/NAP
Start	4926	End	7020
GI	7523517	Score	289
Exons	4926..5226, 5371..5420, 6963..7020		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		
Seq. No.	53353	Seq. ID	OJ990714_12.0419.C81
Gene No.	112371	Strand	+

Start	8829	End	9133
Name	OJ990714_12.0419.C81.o2.gp	Method	AAT/GAP
Start	8829	End	9133
GI	LIB3432-059-P1-K1-D8	Score	586
Exons	8829..9133		
GI Descrip.	'5734616/dbj|AP000391.1|AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	53353	Seq. ID	OJ990714_12.0419.C81
Gene No.	112372	Strand	-
Start	2339	End	4522
Name	OJ990714_12.0419.C81.o2.np	Method	AAT/NAP
Start	2339	End	4522
GI	6721561	Score	1193
Exons	2339..3104, 3170..3228, 3299..3519, 4483..4522		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53353	Seq. ID	OJ990714_12.0419.C81
Gene No.	112372	Strand	-
Start	2339	End	4522
Name	OJ990714_12.0419.C81.o3.np	Method	AAT/NAP
Start	2591	End	4481
GI	6721558	Score	256
Exons	2591..2796, 3552..3682, 4382..4481		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	53353	Seq. ID	OJ990714_12.0419.C81
Gene No.	112372	Strand	-
Start	2339	End	4522
Name	OJ990714_12.0419.C81.o2.gs	Method	GENSCAN
Start	2741	End	4481
GI	none	Score	.87
Exons	2741..3104, 3170..3228, 3299..3490, 3558..3682, 3848..4481		

Seq. No.	53353	Seq. ID	OJ990714_12.0419.C81
Gene No.	112373	Strand	-
Start	7088	End	8575
Name	OJ990714_12.0419.C81.o2.tw	Method	TBLASTX:Wheat
Start	1	End	216
GI	none	Score	195
Exons	1..216, 15..206		

Seq. No.	53353	Seq. ID	OJ990714_12.0419.C81
Gene No.	112373	Strand	-
Start	7088	End	8575
Name	OJ990714_12.0419.C81.o1.tw	Method	TBLASTX:Wheat
Start	238	End	846
GI	none	Score	371
Exons	238..690, 270..341, 387..494, 715..846, 720..845		

Seq. No.	53353	Seq. ID	OJ990714_12.0419.C81

Gene No.	112373	Strand	-
Start	7088	End	8575
Name	OJ990714_12.0419.C81.o1.tm	Method	TBLASTX:Maize
Start	460	End	723
GI	none	Score	201
Exons	460..723		

Seq. No.	53353	Seq. ID	OJ990714_12.0419.C81
Gene No.	112373	Strand	-
Start	7088	End	8575
Name	OJ990714_12.0419.C81.o4.gs	Method	GENSCAN
Start	7088	End	8575
GI	none	Score	.72
Exons	7088..7539, 7683..7846, 8094..8169, 8237..8292, 8298..8575		

Seq. No.	53354	Seq. ID	OJ990714_12.0419.C82
Gene No.	112374	Strand	+
Start	1207	End	3499
Name	OJ990714_12.0419.C82.o1.gs	Method	GENSCAN
Start	1207	End	3277
GI	none	Score	.75
Exons	1207..1358, 1551..1750, 1846..2028, 2077..2576, 2615..3277		

Seq. No.	53354	Seq. ID	OJ990714_12.0419.C82
Gene No.	112374	Strand	+
Start	1207	End	3499
Name	OJ990714_12.0419.C82.o1.tw	Method	TBLASTX:Wheat
Start	1980	End	2367
GI	none	Score	316
Exons	1980..2366, 1994..2365, 2296..2367		

Seq. No.	53354	Seq. ID	OJ990714_12.0419.C82
Gene No.	112374	Strand	+
Start	1207	End	3499
Name	OJ990714_12.0419.C82.o1.np	Method	AAT/NAP
Start	1986	End	3499
GI	6539553	Score	2476
Exons	1986..3499		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		

Seq. No.	53354	Seq. ID	OJ990714_12.0419.C82
Gene No.	112374	Strand	+
Start	1207	End	3499
Name	OJ990714_12.0419.C82.o2.tm	Method	TBLASTX:Maize
Start	2115	End	2428
GI	none	Score	341
Exons	2115..2426, 2123..2428		

Seq. No.	53354	Seq. ID	OJ990714_12.0419.C82
Gene No.	112374	Strand	+
Start	1207	End	3499
Name	OJ990714_12.0419.C82.o1.tm	Method	TBLASTX:Maize
Start	2926	End	3248
GI	none	Score	245

Exons	2926..3180, 2933..3247, 2946..3248, 2953..3243		
Seq. No.	53355	Seq. ID	OJ990714_12.0419.C83
Gene No.	112375	Strand	+
Start	1	End	1937
Name	OJ990714_12.0419.C83.o1.np	Method	AAT/NAP
Start	1	End	1898
GI	6539553	Score	2893
Exons	1..1898		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		
Seq. No.	53355	Seq. ID	OJ990714_12.0419.C83
Gene No.	112375	Strand	+
Start	1	End	1937
Name	OJ990714_12.0419.C83.o1.gs	Method	GENSCAN
Start	56	End	1937
GI	none	Score	.41
Exons	56..275, 646..978, 1059..1415, 1613..1937		
Seq. No.	53355	Seq. ID	OJ990714_12.0419.C83
Gene No.	112375	Strand	+
Start	1	End	1937
Name	OJ990714_12.0419.C83.o3.tm	Method	TBLASTX:Maize
Start	58	End	505
GI	none	Score	179
Exons	58..279, 102..251, 365..505		
Seq. No.	53355	Seq. ID	OJ990714_12.0419.C83
Gene No.	112375	Strand	+
Start	1	End	1937
Name	OJ990714_12.0419.C83.o3.ts	Method	TBLASTX:Soybean
Start	109	End	505
GI	none	Score	155
Exons	109..279, 117..275, 124..279, 321..368, 365..505		
Seq. No.	53355	Seq. ID	OJ990714_12.0419.C83
Gene No.	112375	Strand	+
Start	1	End	1937
Name	OJ990714_12.0419.C83.o1.tw	Method	TBLASTX:Wheat
Start	157	End	910
GI	none	Score	178
Exons	157..282, 164..280, 165..281, 277..369, 279..368, 368..604, 376..642, 662..910, 663..893, 671..910		
Seq. No.	53355	Seq. ID	OJ990714_12.0419.C83
Gene No.	112375	Strand	+
Start	1	End	1937
Name	OJ990714_12.0419.C83.o1.ts	Method	TBLASTX:Soybean
Start	830	End	1293
GI	5509260	Score	112
Exons	830..1003, 1003..1293, 1047..1142, 1215..1274		
GI Descrip.	-		
Seq. No.	53355	Seq. ID	OJ990714_12.0419.C83

Gene No.	112375	Strand	+
Start	1	End	1937
Name	OJ990714_12.0419.C83.o1.tc	Method	TBLASTX:Cress
Start	923	End	1182
GI	none	Score	101
Exons	923..1021, 1003..1182		

Seq. No.	53355	Seq. ID	OJ990714_12.0419.C83
Gene No.	112375	Strand	+
Start	1	End	1937
Name	OJ990714_12.0419.C83.o2.tw	Method	TBLASTX:Wheat
Start	980	End	1730
GI	none	Score	38
Exons	980..1003, 1003..1308, 1111..1284, 1324..1413, 1659..1730		

Seq. No.	53355	Seq. ID	OJ990714_12.0419.C83
Gene No.	112375	Strand	+
Start	1	End	1937
Name	OJ990714_12.0419.C83.o1.tm	Method	TBLASTX:Maize
Start	1003	End	1395
GI	none	Score	296
Exons	1003..1395, 1047..1145, 1099..1281, 1215..1325		

Seq. No.	53355	Seq. ID	OJ990714_12.0419.C83
Gene No.	112375	Strand	+
Start	1	End	1937
Name	OJ990714_12.0419.C83.o2.ts	Method	TBLASTX:Soybean
Start	1362	End	1706
GI	none	Score	67
Exons	1362..1403, 1363..1404, 1407..1706, 1418..1561		

Seq. No.	53355	Seq. ID	OJ990714_12.0419.C83
Gene No.	112375	Strand	+
Start	1	End	1937
Name	OJ990714_12.0419.C83.o2.tm	Method	TBLASTX:Maize
Start	1518	End	1856
GI	none	Score	286
Exons	1518..1841, 1524..1856, 1628..1855		

Seq. No.	53355	Seq. ID	OJ990714_12.0419.C83
Gene No.	112375	Strand	+
Start	1	End	1937
Name	OJ990714_12.0419.C83.o3.tw	Method	TBLASTX:Wheat
Start	1731	End	1898
GI	none	Score	74
Exons	1731..1787, 1733..1780, 1793..1897, 1802..1897, 1803..1898, 1803..1898		

Seq. No.	53356	Seq. ID	OJ990714_12.0419.C84
Gene No.	112376	Strand	+
Start	1	End	2102
Name	OJ990714_12.0419.C84.o1.np	Method	AAT/NAP
Start	1	End	766
GI	6539553	Score	661
Exons	1..34, 335..766		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837)		

Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]

Seq. No.	53356	Seq. ID	OJ990714_12.0419.C84
Gene No.	112376	Strand	+
Start	1	End	2102
Name	OJ990714_12.0419.C84.o1.tw	Method	TBLASTX:Wheat
Start	334	End	630
GI	none	Score	381
Exons	334..630, 335..592, 337..630		

Seq. No.	53356	Seq. ID	OJ990714_12.0419.C84
Gene No.	112376	Strand	+
Start	1	End	2102
Name	OJ990714_12.0419.C84.o1.gs	Method	GENSCAN
Start	428	End	2102
GI	none	Score	.61
Exons	428..764, 1555..1702, 1895..2102		

Seq. No.	53357	Seq. ID	OJ990714_12.0419.C85
Gene No.	112377	Strand	-
Start	873	End	3271
Name	OJ990714_12.0419.C85.o1.gs	Method	GENSCAN
Start	873	End	3271
GI	none	Score	.41
Exons	873..1022, 1401..1451, 1497..1587, 1621..1714, 3052..3271		

Seq. No.	53358	Seq. ID	OJ990714_12.0419.C86
Gene No.	112378	Strand	+
Start	2627	End	7586
Name	OJ990714_12.0419.C86.o2.gs	Method	GENSCAN
Start	2627	End	4965
GI	none	Score	.58
Exons	2627..2925, 3043..3153, 4791..4965		

Seq. No.	53358	Seq. ID	OJ990714_12.0419.C86
Gene No.	112378	Strand	+
Start	2627	End	7586
Name	OJ990714_12.0419.C86.o1.np	Method	AAT/NAP
Start	2633	End	7586
GI	6554175	Score	87
Exons	2633..2925, 3043..3100, 7494..7586		
GI Descrip.	(AC006072) unknown protein [Arabidopsis thaliana]		

Seq. No.	53358	Seq. ID	OJ990714_12.0419.C86
Gene No.	112378	Strand	+
Start	2627	End	7586
Name	OJ990714_12.0419.C86.o2.np	Method	AAT/NAP
Start	3006	End	5919
GI	6006367	Score	85
Exons	3006..3035, 4539..4725, 4849..5055, 5810..5919		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	53358	Seq. ID	OJ990714_12.0419.C86
Gene No.	112379	Strand	-
Start	6008	End	6377
Name	OJ990714_12.0419.C86.o3.gs	Method	GENSCAN

Start	6008	End	6377
GI	none	Score	.6
Exons	6008..6150, 6290..6377		

Seq. No.	53359	Seq. ID	OJ990714_12.0419.C87
Gene No.	112380	Strand	+
Start	1	End	5197
Name	OJ990714_12.0419.C87.o1.np	Method	AAT/NAP
Start	1	End	5197
GI	6554175	Score	738
Exons	1..74, 210..640, 874..953, 1062..1176, 1614..2277, 4175..4384, 5166..5197		
GI Descrip.	(AC006072) unknown protein [Arabidopsis thaliana]		

Seq. No.	53359	Seq. ID	OJ990714_12.0419.C87
Gene No.	112380	Strand	+
Start	1	End	5197
Name	OJ990714_12.0419.C87.o2.tm	Method	TBLASTX:Maize
Start	170	End	565
GI	none	Score	110
Exons	170..262, 171..278, 173..286, 352..447, 353..445, 485..565		

Seq. No.	53359	Seq. ID	OJ990714_12.0419.C87
Gene No.	112380	Strand	+
Start	1	End	5197
Name	OJ990714_12.0419.C87.o1.gs	Method	GENSCAN
Start	338	End	4384
GI	none	Score	.66
Exons	338..620, 851..953, 1062..1176, 1338..1496, 3821..3865, 4105..4384		

Seq. No.	53359	Seq. ID	OJ990714_12.0419.C87
Gene No.	112380	Strand	+
Start	1	End	5197
Name	OJ990714_12.0419.C87.o1.ts	Method	TBLASTX:Soybean
Start	1059	End	2006
GI	none	Score	141
Exons	1059..1172, 1060..1176, 1401..1499, 1614..1664, 1692..1790, 1809..1859, 1923..2006		

Seq. No.	53359	Seq. ID	OJ990714_12.0419.C87
Gene No.	112380	Strand	+
Start	1	End	5197
Name	OJ990714_12.0419.C87.o1.tm	Method	TBLASTX:Maize
Start	1691	End	2243
GI	none	Score	177
Exons	1691..1819, 1701..1898, 1869..2087, 1928..1996, 1929..2084, 2078..2242, 2079..2243		

Seq. No.	53359	Seq. ID	OJ990714_12.0419.C87
Gene No.	112380	Strand	+
Start	1	End	5197
Name	OJ990714_12.0419.C87.o3.tm	Method	TBLASTX:Maize
Start	4159	End	4350
GI	none	Score	127
Exons	4159..4347, 4170..4304, 4170..4349, 4171..4350		

Seq. No.	53360	Seq. ID	OJ990714_12.0419.C88
Gene No.	112381	Strand	+
Start	1	End	1514
Name	OJ990714_12.0419.C88.o1.np	Method	AAT/NAP
Start	1	End	549
GI	6554175	Score	278
Exons	1..549		
GI Descrip.	(AC006072) unknown protein [Arabidopsis thaliana]		

Seq. No.	53360	Seq. ID	OJ990714_12.0419.C88
Gene No.	112381	Strand	+
Start	1	End	1514
Name	OJ990714_12.0419.C88.o1.gs	Method	GENSCAN
Start	97	End	1514
GI	none	Score	.65
Exons	97..307, 975..1097, 1384..1514		

Seq. No.	53360	Seq. ID	OJ990714_12.0419.C88
Gene No.	112382	Strand	-
Start	724	End	1108
Name	OJ990714_12.0419.C88.o1.tc	Method	TBLASTX:Cress
Start	4	End	531
GI	none	Score	65
Exons	4..108, 136..228, 247..531, 264..527		

Seq. No.	53360	Seq. ID	OJ990714_12.0419.C88
Gene No.	112382	Strand	-
Start	724	End	1108
Name	OJ990714_12.0419.C88.o1.tm	Method	TBLASTX:Maize
Start	188	End	567
GI	none	Score	102
Exons	188..379, 192..458, 192..494, 193..459, 426..545, 460..564, 462..563, 463..567		

Seq. No.	53360	Seq. ID	OJ990714_12.0419.C88
Gene No.	112382	Strand	-
Start	724	End	1108
Name	OJ990714_12.0419.C88.o1.ts	Method	TBLASTX:Soybean
Start	235	End	531
GI	none	Score	203
Exons	235..531, 263..376		

Seq. No.	53360	Seq. ID	OJ990714_12.0419.C88
Gene No.	112382	Strand	-
Start	724	End	1108
Name	OJ990714_12.0419.C88.o1.gp	Method	AAT/GAP
Start	724	End	1108
GI	uC-osf1M202064b07a1	Score	754
Exons	724..1108		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	53361	Seq. ID	OJ990714_12.0419.C89
Gene No.	112383	Strand	-
Start	100	End	180
Name	OJ990714_12.0419.C89.o1.gp	Method	AAT/GAP
Start	100	End	180

GI	38012_1.R1084	Score	107
Exons	100..180		
GI Descrip.	'4097947/gb|U72255|OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112384	Strand	+
Start	1	End	6003
Name	OJ990714_12.0419.C90.o1.np	Method	AAT/NAP
Start	1	End	2726
GI	4680179	Score	4096
Exons	1..2726		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112384	Strand	+
Start	1	End	6003
Name	OJ990714_12.0419.C90.o2.np	Method	AAT/NAP
Start	1	End	6003
GI	5852175	Score	155
Exons	1..36, 3583..3762, 4666..4770, 5951..6003		
GI Descrip.	(AL117265) zhb0005.1 [Oryza sativa]		

Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112384	Strand	+
Start	1	End	6003
Name	OJ990714_12.0419.C90.o1.gs	Method	GENSCAN
Start	73	End	2729
GI	none	Score	.97
Exons	73..1154, 1256..2729		

Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112385	Strand	-
Start	3397	End	3918
Name	OJ990714_12.0419.C90.o2.gs	Method	GENSCAN
Start	3397	End	3918
GI	none	Score	.73
Exons	3397..3918		

Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112386	Strand	-
Start	4083	End	4153
Name	OJ990714_12.0419.C90.o1.gp	Method	AAT/GAP
Start	4083	End	4153
GI	uC-osroM202024h08a1	Score	81
Exons	4083..4153		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 5.0e-84 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112387	Strand	-
Start	4294	End	4820
Name	OJ990714_12.0419.C90.o2.gp	Method	AAT/GAP
Start	4294	End	4820
GI	uC-osf1M202048c12b1	Score	889
Exons	4294..4820		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 2.0e-16 Oryza sativa genomic		

DNA, chromosome 8, clone:P0026F07'

Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112388	Strand	-
Start	5291	End	5518
Name	OJ990714_12.0419.C90.o5.tm	Method	TBLASTX:Maize
Start	1	End	194
GI	none	Score	232
Exons	1..192, 3..194		

Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112388	Strand	-
Start	5291	End	5518
Name	OJ990714_12.0419.C90.o4.tw	Method	TBLASTX:Wheat
Start	3	End	375
GI	none	Score	138
Exons	3..332, 3..332, 4..375		

Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112388	Strand	-
Start	5291	End	5518
Name	OJ990714_12.0419.C90.o4.tm	Method	TBLASTX:Maize
Start	262	End	762
GI	none	Score	117
Exons	262..405, 460..762, 513..641		

Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112388	Strand	-
Start	5291	End	5518
Name	OJ990714_12.0419.C90.o1.ts	Method	TBLASTX:Soybean
Start	316	End	711
GI	none	Score	57
Exons	316..348, 316..348, 352..432, 460..711	353..496, 354..497, 456..701,	

Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112388	Strand	-
Start	5291	End	5518
Name	OJ990714_12.0419.C90.o6.tw	Method	TBLASTX:Wheat
Start	451	End	723
GI	none	Score	104
Exons	451..669, 455..667, 456..722, 463..723		

Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112388	Strand	-
Start	5291	End	5518
Name	OJ990714_12.0419.C90.o2.tw	Method	TBLASTX:Wheat
Start	726	End	1152
GI	none	Score	51
Exons	726..884, 726..1145, 727..1152, 802..1152		

Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112388	Strand	-
Start	5291	End	5518
Name	OJ990714_12.0419.C90.o3.ts	Method	TBLASTX:Soybean
Start	733	End	981
GI	none	Score	207

Exons	733..981		
Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112388	Strand	-
Start	5291	End	5518
Name	OJ990714_12.0419.C90.o2.tm	Method	TBLASTX:Maize
Start	799	End	1152
GI	none	Score	467
Exons	799..1152, 804..1067, 805..1137, 1113..1145		
Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112388	Strand	-
Start	5291	End	5518
Name	OJ990714_12.0419.C90.o3.tw	Method	TBLASTX:Wheat
Start	1242	End	1715
GI	none	Score	550
Exons	1242..1715, 1265..1714		
Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112388	Strand	-
Start	5291	End	5518
Name	OJ990714_12.0419.C90.o1.tc	Method	TBLASTX:Cress
Start	1413	End	1739
GI	none	Score	82
Exons	1413..1595, 1596..1739, 1598..1720		
Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112388	Strand	-
Start	5291	End	5518
Name	OJ990714_12.0419.C90.o2.ts	Method	TBLASTX:Soybean
Start	1503	End	1763
GI	none	Score	297
Exons	1503..1763, 1505..1762		
Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112388	Strand	-
Start	5291	End	5518
Name	OJ990714_12.0419.C90.o3.tm	Method	TBLASTX:Maize
Start	1561	End	1853
GI	none	Score	404
Exons	1561..1833, 1562..1849, 1563..1853		
Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112388	Strand	-
Start	5291	End	5518
Name	OJ990714_12.0419.C90.o1.tw	Method	TBLASTX:Wheat
Start	1722	End	2348
GI	none	Score	720
Exons	1722..2348, 1724..2227, 2097..2342, 2264..2347		
Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112388	Strand	-
Start	5291	End	5518
Name	OJ990714_12.0419.C90.o1.tm	Method	TBLASTX:Maize
Start	1902	End	2486
GI	none	Score	225
Exons	1902..2063, 1908..2054, 1910..2065, 1910..2056, 2060..2224,		

2061..2486, 2273..2362

Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112388	Strand	-
Start	5291	End	5518
Name	OJ990714_12.0419.C90.o5.tw	Method	TBLASTX:Wheat
Start	2348	End	2681
GI	none	Score	377
Exons	2348..2422, 2349..2681, 2441..2458		

Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112388	Strand	-
Start	5291	End	5518
Name	OJ990714_12.0419.C90.o6.tm	Method	TBLASTX:Maize
Start	2490	End	2736
GI	none	Score	177
Exons	2490..2702, 2520..2702, 2704..2736, 2710..2736		

Seq. No.	53362	Seq. ID	OJ990714_12.0419.C90
Gene No.	112388	Strand	-
Start	5291	End	5518
Name	OJ990714_12.0419.C90.o3.gp	Method	AAT/GAP
Start	5291	End	5518
GI	uC-osroM202024h08a1	Score	335
Exons	5291..5518		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 5.0e-84 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	53363	Seq. ID	OJ990714_12.0419.C91
Gene No.	112389	Strand	+
Start	1	End	2181
Name	OJ990714_12.0419.C91.o1.np	Method	AAT/NAP
Start	1	End	735
GI	4512229	Score	1211
Exons	1..735		
GI Descrip.	(AB014740) ORF0 protein [Oryza sativa]		

Seq. No.	53363	Seq. ID	OJ990714_12.0419.C91
Gene No.	112389	Strand	+
Start	1	End	2181
Name	OJ990714_12.0419.C91.o1.gs	Method	GENSCAN
Start	37	End	2143
GI	none	Score	.5
Exons	37..734, 1251..2143		

Seq. No.	53363	Seq. ID	OJ990714_12.0419.C91
Gene No.	112389	Strand	+
Start	1	End	2181
Name	OJ990714_12.0419.C91.o2.np	Method	AAT/NAP
Start	1025	End	2181
GI	6983860	Score	1448
Exons	1025..2181		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	53363	Seq. ID	OJ990714_12.0419.C91
Gene No.	112389	Strand	+

Start	1	End	2181
Name	OJ990714_12.0419.C91.o2.tw	Method	TBLASTX:Wheat
Start	1191	End	1392
GI	none	Score	215
Exons	1191..1391, 1192..1392		

Seq. No.	53363	Seq. ID	OJ990714_12.0419.C91
Gene No.	112389	Strand	+
Start	1	End	2181
Name	OJ990714_12.0419.C91.o1.tm	Method	TBLASTX:Maize
Start	1444	End	1743
GI	none	Score	245
Exons	1444..1743, 1470..1574, 1562..1600, 1662..1742		

Seq. No.	53363	Seq. ID	OJ990714_12.0419.C91
Gene No.	112389	Strand	+
Start	1	End	2181
Name	OJ990714_12.0419.C91.o1.tw	Method	TBLASTX:Wheat
Start	1444	End	1788
GI	none	Score	320
Exons	1444..1788, 1470..1574, 1547..1639		

Seq. No.	53364	Seq. ID	OJ990714_12.0419.C96
Gene No.	112390	Strand	+
Start	1	End	6149
Name	OJ990714_12.0419.C96.o1.np	Method	AAT/NAP
Start	1	End	6149
GI	6466937	Score	1553
Exons	1..2033, 5072..6149		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	53364	Seq. ID	OJ990714_12.0419.C96
Gene No.	112390	Strand	+
Start	1	End	6149
Name	OJ990714_12.0419.C96.o1.gs	Method	GENSCAN
Start	1461	End	3466
GI	none	Score	.58
Exons	1461..1623, 2104..2384, 2816..2961, 3385..3466		

Seq. No.	53364	Seq. ID	OJ990714_12.0419.C96
Gene No.	112391	Strand	-
Start	3701	End	6827
Name	OJ990714_12.0419.C96.o4.tw	Method	TBLASTX:Wheat
Start	458	End	867
GI	none	Score	34
Exons	458..649, 518..550, 561..650, 649..867, 665..853		

Seq. No.	53364	Seq. ID	OJ990714_12.0419.C96
Gene No.	112391	Strand	-
Start	3701	End	6827
Name	OJ990714_12.0419.C96.o4.tm	Method	TBLASTX:Maize
Start	561	End	932
GI	none	Score	100
Exons	561..662, 656..871, 664..858, 749..859, 882..932		

Seq. No.	53364	Seq. ID	OJ990714_12.0419.C96

Gene No.	112391	Strand	-
Start	3701	End	6827
Name	OJ990714_12.0419.C96.o1.ts	Method	TBLASTX:Soybean
Start	837	End	1211
GI	none	Score	268
Exons	837..1211		

Seq. No.	53364	Seq. ID	OJ990714_12.0419.C96
Gene No.	112391	Strand	-
Start	3701	End	6827
Name	OJ990714_12.0419.C96.o1.tm	Method	TBLASTX:Maize
Start	960	End	1487
GI	none	Score	447
Exons	960..1487, 968..1210, 1328..1471		

Seq. No.	53364	Seq. ID	OJ990714_12.0419.C96
Gene No.	112391	Strand	-
Start	3701	End	6827
Name	OJ990714_12.0419.C96.o3.tw	Method	TBLASTX:Wheat
Start	960	End	1337
GI	none	Score	232
Exons	960..1337		

Seq. No.	53364	Seq. ID	OJ990714_12.0419.C96
Gene No.	112391	Strand	-
Start	3701	End	6827
Name	OJ990714_12.0419.C96.o5.tm	Method	TBLASTX:Maize
Start	1488	End	1900
GI	none	Score	108
Exons	1488..1619, 1490..1609, 1658..1900		

Seq. No.	53364	Seq. ID	OJ990714_12.0419.C96
Gene No.	112391	Strand	-
Start	3701	End	6827
Name	OJ990714_12.0419.C96.o1.tw	Method	TBLASTX:Wheat
Start	1673	End	2020
GI	none	Score	255
Exons	1673..2020, 1805..2020		

Seq. No.	53364	Seq. ID	OJ990714_12.0419.C96
Gene No.	112391	Strand	-
Start	3701	End	6827
Name	OJ990714_12.0419.C96.o3.tm	Method	TBLASTX:Maize
Start	1901	End	5499
GI	none	Score	81
Exons	1901..2017, 5079..5144, 5123..5323, 5319..5426, 5437..5499		

Seq. No.	53364	Seq. ID	OJ990714_12.0419.C96
Gene No.	112391	Strand	-
Start	3701	End	6827
Name	OJ990714_12.0419.C96.o2.gs	Method	GENSCAN
Start	3701	End	6827
GI	none	Score	.67
Exons	3701..3915, 3975..4057, 4148..4248, 6573..6827		

Seq. No.	53364	Seq. ID	OJ990714_12.0419.C96
Gene No.	112391	Strand	-

Start	3701	End	6827
Name	OJ990714_12.0419.C96.o2.tm	Method	TBLASTX:Maize
Start	5500	End	6151
GI	none	Score	292
Exons	5500..5910, 5610..5768, 5978..6151		

Seq. No.	53364	Seq. ID	OJ990714_12.0419.C96
Gene No.	112391	Strand	-
Start	3701	End	6827
Name	OJ990714_12.0419.C96.o2.tw	Method	TBLASTX:Wheat
Start	5632	End	5946
GI	none	Score	251
Exons	5632..5946, 5640..5759, 5662..5922		

Seq. No.	53365	Seq. ID	OJ990714_12.0419.C97
Gene No.	112392	Strand	
Start	925	End	1431
Name	OJ990714_12.0419.C97.o1.tm	Method	TBLASTX:Maize
Start	925	End	1431
GI	none	Score	69
Exons	925..1023, 927..1025, 927..1052, 1004..1261, 1076..1126, 1116..1265, 1123..1275, 1124..1279, 1266..1340, 1271..1357, 1295..1348, 1348..1431		

Seq. No.	53366	Seq. ID	OJ990714_12.0419.C98
Gene No.	112393	Strand	+
Start	2464	End	7074
Name	OJ990714_12.0419.C98.o1.gs	Method	GENSCAN
Start	2464	End	5401
GI	none	Score	.48
Exons	2464..2646, 3175..3232, 3263..3374, 4006..4113, 5295..5401		

Seq. No.	53366	Seq. ID	OJ990714_12.0419.C98
Gene No.	112393	Strand	+
Start	2464	End	7074
Name	OJ990714_12.0419.C98.o1.np	Method	AAT/NAP
Start	5301	End	6903
GI	6553935	Score	410
Exons	5301..5455, 6036..6903		
GI Descrip.	(AC011915) putative tRNA isopentenyl transferase [Arabidopsis thaliana]		

Seq. No.	53366	Seq. ID	OJ990714_12.0419.C98
Gene No.	112393	Strand	+
Start	2464	End	7074
Name	OJ990714_12.0419.C98.o2.gs	Method	GENSCAN
Start	6050	End	7074
GI	none	Score	.78
Exons	6050..6526, 6580..7074		

Seq. No.	53366	Seq. ID	OJ990714_12.0419.C98
Gene No.	112394	Strand	+
Start	9887	End	9996
Name	OJ990714_12.0419.C98.o2.gp	Method	AAT/GAP
Start	9887	End	9996
GI	uC-osflcyp088b12b1	Score	158
Exons	9887..9996		

GI Descrip.	'5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		
Seq. No.	53366	Seq. ID	OJ990714_12.0419.C98
Gene No.	112395	Strand	+
Start	10525	End	12725
Name	OJ990714_12.0419.C98.o2.np	Method	AAT/NAP
Start	10525	End	12725
GI	6815109	Score	253
Exons	10525..10587, 11441..12187, 12359..12725		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		
Seq. No.	53366	Seq. ID	OJ990714_12.0419.C98
Gene No.	112396	Strand	-
Start	4962	End	5045
Name	OJ990714_12.0419.C98.o1.gp	Method	AAT/GAP
Start	4962	End	5045
GI	LIB3477-003-P1-K1-E9	Score	115
Exons	4962..5045		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	53366	Seq. ID	OJ990714_12.0419.C98
Gene No.	112397	Strand	-
Start	7357	End	17562
Name	OJ990714_12.0419.C98.o1.ts	Method	TBLASTX:Soybean
Start	6071	End	6394
GI	none	Score	193
Exons	6071..6283, 6350..6394		
Seq. No.	53366	Seq. ID	OJ990714_12.0419.C98
Gene No.	112397	Strand	-
Start	7357	End	17562
Name	OJ990714_12.0419.C98.o3.gs	Method	GENSCAN
Start	7357	End	17562
GI	none	Score	.47
Exons	7357..7464, 8042..8246, 9613..9694, 11135..11195, 11427..12357, 12437..12691, 13305..13613, 14322..14410, 15959..16197, 16406..16531, 16627..16675, 17172..17301, 17498..17562		
Seq. No.	53366	Seq. ID	OJ990714_12.0419.C98
Gene No.	112397	Strand	-
Start	7357	End	17562
Name	OJ990714_12.0419.C98.o3.np	Method	AAT/NAP
Start	9063	End	15792
GI	4063770	Score	691
Exons	9063..9111, 13135..13613, 13731..14173, 15572..15792		
GI Descrip.	(AB004906) transposase [Ipomoea purpurea]		
Seq. No.	53367	Seq. ID	OJ990714_12.0419.C99
Gene No.	112398	Strand	+
Start	3214	End	3794
Name	OJ990714_12.0419.C99.o1.gp	Method	AAT/GAP
Start	3214	End	3794
GI	none	Score	1023
Exons	3214..3794		

Seq. No.	53367	Seq. ID	OJ990714_12.0419.C99
Gene No.	112399	Strand	-
Start	1221	End	1769
Name	OJ990714_12.0419.C99.o1.gs	Method	GENSCAN
Start	1221	End	1769
GI	none	Score	.83
Exons	1221..1388, 1764..1769		

Seq. No.	53367	Seq. ID	OJ990714_12.0419.C99
Gene No.	112400	Strand	-
Start	3763	End	4587
Name	OJ990714_12.0419.C99.o1.np	Method	AAT/NAP
Start	3763	End	4514
GI	3786008	Score	261
Exons	3763..3976, 4028..4170, 4275..4514		
GI Descrip.	(AC005499) unknown protein [Arabidopsis thaliana]		

Seq. No.	53367	Seq. ID	OJ990714_12.0419.C99
Gene No.	112400	Strand	-
Start	3763	End	4587
Name	OJ990714_12.0419.C99.o2.gs	Method	GENSCAN
Start	3763	End	4514
GI	none	Score	.99
Exons	3763..4170, 4275..4514		

Seq. No.	53367	Seq. ID	OJ990714_12.0419.C99
Gene No.	112400	Strand	-
Start	3763	End	4587
Name	OJ990714_12.0419.C99.o2.gp	Method	AAT/GAP
Start	3869	End	4587
GI	11323_1.R1084	Score	1180
Exons	3869..4170, 4275..4587		
GI Descrip.	'3786008 8.0e-16 (AC005499) unknown protein [Arabidopsis thaliana]'		

Seq. No.	53367	Seq. ID	OJ990714_12.0419.C99
Gene No.	112401	Strand	-
Start	6864	End	7021
Name	OJ990714_12.0419.C99.o3.gs	Method	GENSCAN
Start	6864	End	7021
GI	none	Score	.45
Exons	6864..7021		

Seq. No.	53368	Seq. ID	OJ990714_12.0419.C103
Gene No.	112402	Strand	+
Start	1	End	1103
Name	OJ990714_12.0419.C103.o1.np	Method	AAT/NAP
Start	1	End	1103
GI	4755191	Score	472
Exons	1..1103		
GI Descrip.	(AC007018) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	53368	Seq. ID	OJ990714_12.0419.C103
Gene No.	112402	Strand	+
Start	1	End	1103

Name	OJ990714_12.0419.C103.o2.tm	Method	TBLASTX:Maize
Start	159	End	342
GI	none	Score	192
Exons	159..287, 169..342		

Seq. No.	53368	Seq. ID	OJ990714_12.0419.C103
Gene No.	112402	Strand	+
Start	1	End	1103
Name	OJ990714_12.0419.C103.o1.tm	Method	TBLASTX:Maize
Start	427	End	1101
GI	none	Score	410
Exons	427..864, 441..647, 448..657, 678..836, 907..1101, 915..1076		

Seq. No.	53368	Seq. ID	OJ990714_12.0419.C103
Gene No.	112402	Strand	+
Start	1	End	1103
Name	OJ990714_12.0419.C103.o1.tw	Method	TBLASTX:Wheat
Start	493	End	792
GI	none	Score	237
Exons	493..789, 507..641, 757..792		

Seq. No.	53368	Seq. ID	OJ990714_12.0419.C103
Gene No.	112402	Strand	+
Start	1	End	1103
Name	OJ990714_12.0419.C103.o2.tw	Method	TBLASTX:Wheat
Start	793	End	1062
GI	none	Score	69
Exons	793..864, 795..863, 913..1062, 981..1061		

Seq. No.	53369	Seq. ID	OJ990714_12.0419.C104
Gene No.	112403	Strand	+
Start	1	End	2360
Name	OJ990714_12.0419.C104.o1.np	Method	AAT/NAP
Start	1	End	2360
GI	6069646	Score	342
Exons	1..163, 1652..2360		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	53369	Seq. ID	OJ990714_12.0419.C104
Gene No.	112403	Strand	+
Start	1	End	2360
Name	OJ990714_12.0419.C104.o1.gs	Method	GENSCAN
Start	58	End	939
GI	none	Score	.45
Exons	58..939		

Seq. No.	53369	Seq. ID	OJ990714_12.0419.C104
Gene No.	112404	Strand	-
Start	1435	End	6811
Name	OJ990714_12.0419.C104.o2.gs	Method	GENSCAN
Start	1435	End	6811
GI	none	Score	.88
Exons	1435..1947, 2050..2186, 4420..4483, 5460..5551, 5892..6153,		

6583..6682, 6684..6811

Seq. No.	53369	Seq. ID	OJ990714_12.0419.C104
Gene No.	112405	Strand	-
Start	7409	End	7774
Name	OJ990714_12.0419.C104.o3.gs	Method	GENSCAN
Start	7409	End	7774
GI	none	Score	.46
Exons	7409..7774		

Seq. No.	53369	Seq. ID	OJ990714_12.0419.C104
Gene No.	112406	Strand	-
Start	8374	End	9771
Name	OJ990714_12.0419.C104.o1.tm	Method	TBLASTX:Maize
Start	1	End	1851
GI	none	Score	207
Exons	1..312, 60..254, 297..365, 301..366, 403..468, 1522..1695, 1765..1851		

Seq. No.	53369	Seq. ID	OJ990714_12.0419.C104
Gene No.	112406	Strand	-
Start	8374	End	9771
Name	OJ990714_12.0419.C104.o1.tw	Method	TBLASTX:Wheat
Start	205	End	2055
GI	none	Score	46
Exons	205..312, 301..357, 306..359, 394..498, 402..497, 517..564, 1897..2055		

Seq. No.	53369	Seq. ID	OJ990714_12.0419.C104
Gene No.	112406	Strand	-
Start	8374	End	9771
Name	OJ990714_12.0419.C104.o2.tm	Method	TBLASTX:Maize
Start	1858	End	2073
GI	none	Score	188
Exons	1858..2073		

Seq. No.	53369	Seq. ID	OJ990714_12.0419.C104
Gene No.	112406	Strand	-
Start	8374	End	9771
Name	OJ990714_12.0419.C104.o4.gs	Method	GENSCAN
Start	8374	End	9771
GI	none	Score	.69
Exons	8374..8466, 8676..8995, 9534..9771		

Seq. No.	53370	Seq. ID	OJ990714_12.0419.C105
Gene No.	112407	Strand	+
Start	2484	End	2635
Name	OJ990714_12.0419.C105.o1.gp	Method	AAT/GAP
Start	2484	End	2635
GI	21474_1.R1084	Score	177
Exons	2484..2635		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	53370	Seq. ID	OJ990714_12.0419.C105
Gene No.	112408	Strand	-
Start	3093	End	4248

Name	OJ990714_12.0419.C105.o1.gs	Method	GENSCAN
Start	3093	End	4063
GI	none	Score	.64
Exons	3093..3242, 3322..3420, 3902..4063		

Seq. No.	53370	Seq. ID	OJ990714_12.0419.C105
Gene No.	112408	Strand	-
Start	3093	End	4248
Name	OJ990714_12.0419.C105.o1.tw	Method	TBLASTX:Wheat
Start	3724	End	4248
GI	none	Score	70
Exons	3724..3795, 3895..4077, 3902..4027, 4168..4248		

Seq. No.	53371	Seq. ID	OJ990714_12.0419.C106
Gene No.	112409	Strand	-
Start	1	End	1483
Name	OJ990714_12.0419.C106.o1.gp	Method	AAT/GAP
Start	1	End	173
GI	uC-osflcyp176f10b1	Score	294
Exons	1..173		
GI Descrip.	'6041757/gb|AC011806.1|AC011806 0.0e+00 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	53371	Seq. ID	OJ990714_12.0419.C106
Gene No.	112409	Strand	-
Start	1	End	1483
Name	OJ990714_12.0419.C106.o1.np	Method	AAT/NAP
Start	1	End	1483
GI	4680204	Score	551
Exons	1..694, 790..1483		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	53371	Seq. ID	OJ990714_12.0419.C106
Gene No.	112409	Strand	-
Start	1	End	1483
Name	OJ990714_12.0419.C106.o1.gs	Method	GENSCAN
Start	73	End	1234
GI	none	Score	.88
Exons	73..280, 282..427, 553..694, 790..909, 955..1234		

Seq. No.	53371	Seq. ID	OJ990714_12.0419.C106
Gene No.	112409	Strand	-
Start	1	End	1483
Name	OJ990714_12.0419.C106.o1.tw	Method	TBLASTX:Wheat
Start	1138	End	1477
GI	none	Score	36
Exons	1138..1170, 1174..1311, 1175..1255, 1315..1476, 1328..1477		

Seq. No.	53372	Seq. ID	OJ990304_07.0419.C3
Gene No.	112410	Strand	-
Start	1	End	547
Name	OJ990304_07.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	501
GI	2583123	Score	260
Exons	1..501		
GI Descrip.	(AC002387) putative nucleotide sugar epimerase [Arabidopsis		

thaliana]

Seq. No.	53372	Seq. ID	OJ990304_07.0419.C3
Gene No.	112410	Strand	-
Start	1	End	547
Name	OJ990304_07.0419.C3.o1.gs	Method	GENSCAN
Start	34	End	547
GI	none	Score	.54
Exons	34..212, 236..547		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112411	Strand	+
Start	4299	End	4935
Name	OJ990304_07.0419.C4.o1.gp	Method	AAT/GAP
Start	4299	End	4935
GI	none	Score	1206
Exons	4299..4935		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112412	Strand	+
Start	10468	End	15214
Name	OJ990304_07.0419.C4.o1.np	Method	AAT/NAP
Start	10468	End	15214
GI	5915832	Score	649
Exons	10468..11371, 14603..15214		
GI Descrip.	CYTOCHROME P450 76C2 gi|2979549|gb|AAC06158.1| (AC003680) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112412	Strand	+
Start	10468	End	15214
Name	OJ990304_07.0419.C4.o5.gs	Method	GENSCAN
Start	13260	End	15205
GI	none	Score	.93
Exons	13260..13298, 14603..15205		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112413	Strand	-
Start	42	End	371
Name	OJ990304_07.0419.C4.o1.gs	Method	GENSCAN
Start	42	End	371
GI	none	Score	.78
Exons	42..371		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112414	Strand	-
Start	8033	End	8651
Name	OJ990304_07.0419.C4.o3.gs	Method	GENSCAN
Start	8033	End	8651
GI	none	Score	.95
Exons	8033..8147, 8551..8651		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112415	Strand	-
Start	10456	End	11760
Name	OJ990304_07.0419.C4.o4.gs	Method	GENSCAN
Start	10456	End	11760

GI	none	Score	.9
Exons	10456..10911, 11127..11282, 11755..11760		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112416	Strand	-
Start	16253	End	16434
Name	OJ990304_07.0419.C4.o2.np	Method	AAT/NAP
Start	16253	End	16434
GI	3201610	Score	232
Exons	16253..16434		
GI Descrip.	(AC004669) putative gibberellin-regulated protein [Arabidopsis thaliana]		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112417	Strand	-
Start	18638	End	18725
Name	OJ990304_07.0419.C4.o2.gp	Method	AAT/GAP
Start	18638	End	18725
GI	69953_1.R1084	Score	119
Exons	18638..18725		
GI Descrip.	'5295936/dbj|AB026295.2|AB026295 7.0e-34 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112418	Strand	-
Start	21343	End	21810
Name	OJ990304_07.0419.C4.o3.ts	Method	TBLASTX:Soybean
Start	4489	End	4872
GI	none	Score	237
Exons	4489..4872, 4512..4724, 4779..4805		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112418	Strand	-
Start	21343	End	21810
Name	OJ990304_07.0419.C4.o2.tm	Method	TBLASTX:Maize
Start	4501	End	4884
GI	none	Score	258
Exons	4501..4761, 4512..4763, 4764..4877, 4765..4884		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112418	Strand	-
Start	21343	End	21810
Name	OJ990304_07.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	10624	End	15130
GI	none	Score	177
Exons	10624..10875, 14603..14821, 14614..14790, 14816..15130, 14830..15066		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112418	Strand	-
Start	21343	End	21810
Name	OJ990304_07.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	14603	End	15195
GI	none	Score	185
Exons	14603..14821, 14614..14787, 14816..15193, 14827..15195		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4

Gene No.	112418	Strand	-
Start	21343	End	21810
Name	OJ990304_07.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	14603	End	15190
GI	none	Score	176
Exons	14603..14821, 14614..14787, 14816..15190, 14830..15177		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112418	Strand	-
Start	21343	End	21810
Name	OJ990304_07.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	14603	End	14905
GI	none	Score	158
Exons	14603..14830, 14804..14905		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112418	Strand	-
Start	21343	End	21810
Name	OJ990304_07.0419.C4.o3.tw	Method	TBLASTX:Wheat
Start	14932	End	15181
GI	none	Score	55
Exons	14932..15039, 14933..15181		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112418	Strand	-
Start	21343	End	21810
Name	OJ990304_07.0419.C4.o5.tm	Method	TBLASTX:Maize
Start	16196	End	16435
GI	none	Score	37
Exons	16196..16225, 16249..16365, 16250..16435, 16299..16430		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112418	Strand	-
Start	21343	End	21810
Name	OJ990304_07.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	16248	End	16429
GI	none	Score	188
Exons	16248..16373, 16250..16429		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112418	Strand	-
Start	21343	End	21810
Name	OJ990304_07.0419.C4.o3.tc	Method	TBLASTX:Cress
Start	16250	End	16448
GI	none	Score	87
Exons	16250..16432, 16250..16432, 16299..16448		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112418	Strand	-
Start	21343	End	21810
Name	OJ990304_07.0419.C4.o4.ts	Method	TBLASTX:Soybean
Start	16250	End	16435
GI	none	Score	68
Exons	16250..16435, 16256..16411, 16299..16421		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112418	Strand	-

Start	21343	End	21810
Name	OJ990304_07.0419.C4.o6.tm	Method	TBLASTX:Maize
Start	17444	End	17633
GI	none	Score	190
Exons	17444..17596, 17445..17633, 17448..17618		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112418	Strand	-
Start	21343	End	21810
Name	OJ990304_07.0419.C4.o3.tm	Method	TBLASTX:Maize
Start	21199	End	21510
GI	none	Score	62
Exons	21199..21249, 21205..21249, 21250..21510, 21255..21455, 21356..21508		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112418	Strand	-
Start	21343	End	21810
Name	OJ990304_07.0419.C4.o4.np	Method	AAT/NAP
Start	21343	End	21810
GI	2583123	Score	496
Exons	21343..21810		
GI Descrip.	(AC002387) putative nucleotide sugar epimerase [Arabidopsis thaliana]		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112418	Strand	-
Start	21343	End	21810
Name	OJ990304_07.0419.C4.o2.tc	Method	TBLASTX:Cress
Start	21370	End	21735
GI	none	Score	105
Exons	21370..21531, 21370..21507, 21380..21613, 21381..21662, 21571..21735, 21659..21712		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112418	Strand	-
Start	21343	End	21810
Name	OJ990304_07.0419.C4.o2.ts	Method	TBLASTX:Soybean
Start	21370	End	21717
GI	none	Score	65
Exons	21370..21513, 21370..21717, 21380..21616, 21653..21712		

Seq. No.	53373	Seq. ID	OJ990304_07.0419.C4
Gene No.	112418	Strand	-
Start	21343	End	21810
Name	OJ990304_07.0419.C4.o4.tm	Method	TBLASTX:Maize
Start	21551	End	21790
GI	none	Score	229
Exons	21551..21772, 21552..21776, 21568..21774, 21653..21790		

Seq. No.	53374	Seq. ID	OJ990304_07.0419.C5
Gene No.	112419	Strand	-
Start	2957	End	3114
Name	OJ990304_07.0419.C5.o1.gp	Method	AAT/GAP
Start	2944	End	3114
GI	57774_1.R1084	Score	283
Exons	2944..3114		

GI Descrip.	'6094168/sp|O74893|RS20_SCHPO 6.0e-33 40S RIBOSOMAL PROTEIN S20 >gi_3687464_emb_CAA21188_ (AL031798) 40s ribosomal protein s20. [Schizosaccharomyces pombe]'		
Seq. No.	53374	Seq. ID	OJ990304_07.0419.C5
Gene No.	112419	Strand	-
Start	2957	End	3114
Name	OJ990304_07.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	2945	End	3101
GI	none	Score	107
Exons	2945..3094, 2951..3100, 2952..3101		
Seq. No.	53374	Seq. ID	OJ990304_07.0419.C5
Gene No.	112419	Strand	-
Start	2957	End	3114
Name	OJ990304_07.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	2946	End	3101
GI	none	Score	165
Exons	2946..3101, 2957..3100		
Seq. No.	53374	Seq. ID	OJ990304_07.0419.C5
Gene No.	112419	Strand	-
Start	2957	End	3114
Name	OJ990304_07.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	2953	End	3111
GI	none	Score	66
Exons	2953..3021, 2957..3100, 2958..3101, 3019..3111, 3073..3102		
Seq. No.	53374	Seq. ID	OJ990304_07.0419.C5
Gene No.	112419	Strand	-
Start	2957	End	3114
Name	OJ990304_07.0419.C5.o2.gs	Method	GENSCAN
Start	2957	End	3099
GI	none	Score	.94
Exons	2957..3099		
Seq. No.	53374	Seq. ID	OJ990304_07.0419.C5
Gene No.	112419	Strand	-
Start	2957	End	3114
Name	OJ990304_07.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	2958	End	3101
GI	none	Score	160
Exons	2958..3101, 2963..3100		
Seq. No.	53374	Seq. ID	OJ990304_07.0419.C5
Gene No.	112419	Strand	-
Start	2957	End	3114
Name	OJ990304_07.0419.C5.o1.np	Method	AAT/NAP
Start	2960	End	3101
GI	7440305	Score	191
Exons	2960..3101		
GI Descrip.	ribosomal protein S20, cytosolic - Arabidopsis thaliana gi|5541704|emb|CAB51209.1| (AL096860) 40S RIBOSOMAL PROTEIN S20 homolog [Arabidopsis thaliana]		
Seq. No.	53375	Seq. ID	OJ990304_07.0419.C6
Gene No.	112420	Strand	-

Start	1	End	1118
Name	OJ990304_07.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	1044
GI	548851	Score	238
Exons	1..208, 945..1044		
GI Descrip.	40S RIBOSOMAL PROTEIN S20 gi|481226|pir||S38356 ribosomal protein S20 - rice gi|391875|dbj|BAA02157| (D12632) 40S subunit ribosomal protein [Oryza sativa]		

Seq. No.	53375	Seq. ID	OJ990304_07.0419.C6
Gene No.	112420	Strand	-
Start	1	End	1118
Name	OJ990304_07.0419.C6.o1.gp	Method	AAT/GAP
Start	92	End	1118
GI	57774_1.R1084	Score	515
Exons	92..208, 945..1118		
GI Descrip.	'6094168/sp|O74893|RS20_SCHPO 6.0e-33 40S RIBOSOMAL PROTEIN S20 >gi_3687464_emb_CAA21188_ (AL031798) 40s ribosomal protein s20. [Schizosaccharomyces pombe]'		

Seq. No.	53375	Seq. ID	OJ990304_07.0419.C6
Gene No.	112420	Strand	-
Start	1	End	1118
Name	OJ990304_07.0419.C6.o1.gs	Method	GENSCAN
Start	95	End	1071
GI	none	Score	.93
Exons	95..208, 945..1071		

Seq. No.	53375	Seq. ID	OJ990304_07.0419.C6
Gene No.	112421	Strand	-
Start	2093	End	4570
Name	OJ990304_07.0419.C6.o2.gs	Method	GENSCAN
Start	2093	End	4570
GI	none	Score	.83
Exons	2093..2161, 2508..2590, 2662..2745, 2828..2914, 3449..3566, 4185..4308, 4410..4570		

Seq. No.	53375	Seq. ID	OJ990304_07.0419.C6
Gene No.	112422	Strand	-
Start	6231	End	6522
Name	OJ990304_07.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	91	End	1072
GI	none	Score	155
Exons	91..210, 91..147, 92..202, 93..209, 947..1006, 947..1072		

Seq. No.	53375	Seq. ID	OJ990304_07.0419.C6
Gene No.	112422	Strand	-
Start	6231	End	6522
Name	OJ990304_07.0419.C6.o2.ts	Method	TBLASTX:Soybean
Start	91	End	1002
GI	none	Score	135
Exons	91..210, 91..147, 93..209, 946..1002		

Seq. No.	53375	Seq. ID	OJ990304_07.0419.C6
Gene No.	112422	Strand	-
Start	6231	End	6522
Name	OJ990304_07.0419.C6.o2.tm	Method	TBLASTX:Maize

Start	91	End	1156
GI	none	Score	187
Exons	91..210, 93..209, 95..211, 946..1065, 946..1065, 1036..1089, 1046..1156		

Seq. No.	53375	Seq. ID	OJ990304_07.0419.C6
Gene No.	112422	Strand	-
Start	6231	End	6522
Name	OJ990304_07.0419.C6.o3.tm	Method	TBLASTX:Maize
Start	1803	End	2167
GI	none	Score	142
Exons	1803..1937, 1806..1940, 1807..1938, 1808..1942, 1964..2146, 2002..2064, 2078..2167		

Seq. No.	53375	Seq. ID	OJ990304_07.0419.C6
Gene No.	112422	Strand	-
Start	6231	End	6522
Name	OJ990304_07.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	2663	End	4571
GI	none	Score	65
Exons	2663..2737, 2824..2886, 2829..2906, 3450..3569, 3450..3569, 4159..4290, 4164..4286, 4397..4570, 4404..4571		

Seq. No.	53375	Seq. ID	OJ990304_07.0419.C6
Gene No.	112422	Strand	-
Start	6231	End	6522
Name	OJ990304_07.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	2823	End	4543
GI	none	Score	82
Exons	2823..2912, 4182..4310, 4198..4311, 4397..4543		

Seq. No.	53375	Seq. ID	OJ990304_07.0419.C6
Gene No.	112422	Strand	-
Start	6231	End	6522
Name	OJ990304_07.0419.C6.o3.gs	Method	GENSCAN
Start	6231	End	6522
GI	none	Score	.45
Exons	6231..6522		

Seq. No.	53376	Seq. ID	OJ990304_07.0419.C7
Gene No.	112423	Strand	+
Start	6424	End	6765
Name	OJ990304_07.0419.C7.o1.gp	Method	AAT/GAP
Start	6424	End	6765
GI	3762778	Score	680
Exons	6424..6765		

Seq. No.	53376	Seq. ID	OJ990304_07.0419.C7
Gene No.	112424	Strand	-
Start	1401	End	16277
Name	OJ990304_07.0419.C7.o2.tm	Method	TBLASTX:Maize
Start	1386	End	2445
GI	none	Score	69
Exons	1386..1430, 1954..1986, 1955..2026, 1963..2025, 1964..2053, 2123..2158, 2125..2160, 2126..2158, 2224..2289, 2225..2290, 2226..2291, 2374..2445, 2381..2440, 2385..2444		

Seq. No.	53376	Seq. ID	OJ990304_07.0419.C7
Gene No.	112424	Strand	-
Start	1401	End	16277
Name	OJ990304_07.0419.C7.o1.np	Method	AAT/NAP
Start	1401	End	3187
GI	6630453	Score	299
Exons	1401..1491, 2225..2289, 2382..2497, 3070..3187		
GI Descrip.	(AC007190) F23N19.20 [Arabidopsis thaliana]		

Seq. No.	53376	Seq. ID	OJ990304_07.0419.C7
Gene No.	112424	Strand	-
Start	1401	End	16277
Name	OJ990304_07.0419.C7.o2.gs	Method	GENSCAN
Start	1844	End	4906
GI	none	Score	.48
Exons	1844..1900, 1953..2021, 2125..2183, 2414..2464, 4193..4228, 4492..4906		

Seq. No.	53376	Seq. ID	OJ990304_07.0419.C7
Gene No.	112424	Strand	-
Start	1401	End	16277
Name	OJ990304_07.0419.C7.o1.ts	Method	TBLASTX:Soybean
Start	2122	End	4591
GI	none	Score	105
Exons	2122..2160, 2201..2332, 2224..2289, 2374..2466, 2382..2465, 3067..3135, 3071..3130, 3072..3131, 4493..4591		

Seq. No.	53376	Seq. ID	OJ990304_07.0419.C7
Gene No.	112424	Strand	-
Start	1401	End	16277
Name	OJ990304_07.0419.C7.o3.tm	Method	TBLASTX:Maize
Start	4520	End	4852
GI	none	Score	147
Exons	4520..4771, 4553..4771, 4784..4852		

Seq. No.	53376	Seq. ID	OJ990304_07.0419.C7
Gene No.	112424	Strand	-
Start	1401	End	16277
Name	OJ990304_07.0419.C7.o2.np	Method	AAT/NAP
Start	4542	End	14849
GI	6523547	Score	362
Exons	4542..4899, 5690..5763, 6784..6957, 7738..7809, 14576..14849		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	53376	Seq. ID	OJ990304_07.0419.C7
Gene No.	112424	Strand	-
Start	1401	End	16277
Name	OJ990304_07.0419.C7.o1.tc	Method	TBLASTX:Cress
Start	6067	End	6565
GI	none	Score	36
Exons	6067..6087, 6127..6153, 6178..6249, 6178..6306, 6179..6256, 6308..6388, 6355..6405, 6388..6564, 6403..6552, 6431..6565		

Seq. No.	53376	Seq. ID	OJ990304_07.0419.C7
Gene No.	112424	Strand	-
Start	1401	End	16277

Name	OJ990304_07.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	6335	End	6567
GI	none	Score	231
Exons	6335..6565, 6355..6567, 6358..6567		

Seq. No.	53376	Seq. ID	OJ990304_07.0419.C7
Gene No.	112424	Strand	-
Start	1401	End	16277
Name	OJ990304_07.0419.C7.o2.ts	Method	TBLASTX:Soybean
Start	6355	End	6573
GI	none	Score	71
Exons	6355..6573, 6358..6567		

Seq. No.	53376	Seq. ID	OJ990304_07.0419.C7
Gene No.	112424	Strand	-
Start	1401	End	16277
Name	OJ990304_07.0419.C7.o2.gp	Method	AAT/GAP
Start	7138	End	7654
GI	uC-osflcyp033b06b1	Score	798
Exons	7138..7440, 7519..7654		
GI Descrip.	'20255/emb|Z11920|OSHSP82A 1.0e-17 O.sativa gene for heat shock protein 82 HSP82'		

Seq. No.	53376	Seq. ID	OJ990304_07.0419.C7
Gene No.	112424	Strand	-
Start	1401	End	16277
Name	OJ990304_07.0419.C7.o4.gs	Method	GENSCAN
Start	12879	End	16277
GI	none	Score	.86
Exons	12879..13262, 13343..13567, 13643..13890, 14587..14857, 16023..16057, 16160..16277		

Seq. No.	53377	Seq. ID	OJ990304_07.0419.C8
Gene No.	112425	Strand	-
Start	634	End	1964
Name	OJ990304_07.0419.C8.o1.gs	Method	GENSCAN
Start	634	End	1896
GI	none	Score	.99
Exons	634..1037, 1062..1896		

Seq. No.	53377	Seq. ID	OJ990304_07.0419.C8
Gene No.	112425	Strand	-
Start	634	End	1964
Name	OJ990304_07.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	688	End	1926
GI	none	Score	71
Exons	688..807, 808..912, 809..913, 931..984, 984..1028, 985..1035, 1050..1142, 1051..1191, 1052..1177, 1053..1193, 1189..1389, 1229..1336, 1394..1894, 1396..1926		

Seq. No.	53377	Seq. ID	OJ990304_07.0419.C8
Gene No.	112425	Strand	-
Start	634	End	1964
Name	OJ990304_07.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	751	End	999
GI	none	Score	102
Exons	751..999, 815..997		

Seq. No.	53377	Seq. ID	OJ990304_07.0419.C8
Gene No.	112425	Strand	-
Start	634	End	1964
Name	OJ990304_07.0419.C8.o1.np	Method	AAT/NAP
Start	1106	End	1964
GI	6742729	Score	705
Exons	1106..1964		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	53377	Seq. ID	OJ990304_07.0419.C8
Gene No.	112425	Strand	-
Start	634	End	1964
Name	OJ990304_07.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	1225	End	1647
GI	none	Score	44
Exons	1225..1389, 1229..1336, 1394..1639, 1396..1647		

Seq. No.	53377	Seq. ID	OJ990304_07.0419.C8
Gene No.	112425	Strand	-
Start	634	End	1964
Name	OJ990304_07.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	1582	End	1897
GI	none	Score	149
Exons	1582..1896, 1601..1897		

Seq. No.	53378	Seq. ID	OJ990304_07.0419.C9
Gene No.	112426	Strand	-
Start	1	End	2368
Name	OJ990304_07.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	2368
GI	4680203	Score	1246
Exons	1..165, 325..1958, 2338..2368		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	53378	Seq. ID	OJ990304_07.0419.C9
Gene No.	112426	Strand	-
Start	1	End	2368
Name	OJ990304_07.0419.C9.o2.tm	Method	TBLASTX:Maize
Start	174	End	389
GI	none	Score	89
Exons	174..365, 189..389		

Seq. No.	53378	Seq. ID	OJ990304_07.0419.C9
Gene No.	112426	Strand	-
Start	1	End	2368
Name	OJ990304_07.0419.C9.o2.ts	Method	TBLASTX:Soybean
Start	480	End	719
GI	none	Score	77
Exons	480..713, 489..719		

Seq. No.	53378	Seq. ID	OJ990304_07.0419.C9
Gene No.	112426	Strand	-
Start	1	End	2368
Name	OJ990304_07.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	549	End	941
GI	none	Score	98

Exons	549..743, 565..768, 750..941, 766..939		
Seq. No.	53378	Seq. ID	OJ990304_07.0419.C9
Gene No.	112426	Strand	-
Start	1	End	2368
Name	OJ990304_07.0419.C9.o2.tw	Method	TBLASTX:Wheat
Start	589	End	951
GI	none	Score	85
Exons	589..837, 594..776, 771..884, 787..882, 891..950, 898..951		
Seq. No.	53378	Seq. ID	OJ990304_07.0419.C9
Gene No.	112426	Strand	-
Start	1	End	2368
Name	OJ990304_07.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	837	End	1186
GI	none	Score	81
Exons	837..956, 838..957, 965..1186, 1029..1178		
Seq. No.	53378	Seq. ID	OJ990304_07.0419.C9
Gene No.	112426	Strand	-
Start	1	End	2368
Name	OJ990304_07.0419.C9.o3.ts	Method	TBLASTX:Soybean
Start	918	End	1186
GI	none	Score	100
Exons	918..950, 965..1186, 966..1172		
Seq. No.	53378	Seq. ID	OJ990304_07.0419.C9
Gene No.	112426	Strand	-
Start	1	End	2368
Name	OJ990304_07.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	968	End	1612
GI	none	Score	94
Exons	968..1057, 1059..1166, 1064..1183, 1076..1174, 1196..1612, 1197..1523		
Seq. No.	53378	Seq. ID	OJ990304_07.0419.C9
Gene No.	112426	Strand	-
Start	1	End	2368
Name	OJ990304_07.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	1203	End	1535
GI	none	Score	191
Exons	1203..1487, 1205..1486, 1254..1508, 1485..1535, 1493..1522		
Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112427	Strand	+
Start	191	End	11026
Name	OJ990304_07.0419.C10.o1.gs	Method	GENSCAN
Start	191	End	10830
GI	none	Score	.54
Exons	191..322, 1644..1832, 2068..2176, 3466..3600, 3983..4145, 4591..4699, 4721..4818, 6181..6313, 6456..6542, 7167..7230, 7415..7479, 8067..8114, 8194..8280, 8916..8967, 9494..9624, 9702..9896, 9942..10034, 10118..10206, 10304..10355, 10750..10830		
Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112427	Strand	+

Start	191	End	11026
Name	OJ990304_07.0419.C10.o1.gp	Method	AAT/GAP
Start	6403	End	8810
GI	31157_1.R1084	Score	1118
Exons	6403..6542, 7167..7230, 7415..7479, 8067..8114, 8194..8280, 8387..8467, 8569..8670, 8758..8810		
GI Descrip.	'3023713/sp|Q42971|ENO_ORYSA 7.0e-98 ENOLASE (2-PHOSPHOGLYCERATE DEHYDRATASE) (2-PHOSPHO-D-GLYCERATE HYDRO-LYASE) (OSE1) >gi_780372 (U09450) enolase [Oryza sativa]'		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112427	Strand	+
Start	191	End	11026
Name	OJ990304_07.0419.C10.o1.np	Method	AAT/NAP
Start	6474	End	10827
GI	1169528	Score	1685
Exons	6474..6542, 7167..7230, 7415..7479, 8067..8114, 8194..8280, 8387..8467, 8569..8670, 8758..8838, 8916..8990, 9381..9443, 9547..9624, 9702..9896, 9984..10034, 10118..10206, 10304..10355, 10488..10544, 10750..10827		
GI Descrip.	ENOLASE 2 (2-PHOSPHOGLYCERATE DEHYDRATASE 2) (2-PHOSPHO-D-GLYCERATE HYDRO-LYASE 2) gi|602253 (U17973) enolase [Zea mays]		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112427	Strand	+
Start	191	End	11026
Name	OJ990304_07.0419.C10.o3.gp	Method	AAT/GAP
Start	9708	End	11026
GI	426_3.R1084	Score	1282
Exons	9708..9896, 9984..10034, 10118..10206, 10304..10355, 10488..10544, 10750..11026		
GI Descrip.	'1169528/sp|P42895|ENO2_MAIZE 2.0e-92 ENOLASE 2 (2-PHOSPHOGLYCERATE DEHYDRATASE 2) (2-PHOSPHO-D-GLYCERATE HYDRO-LYASE 2) >gi_602253 (U17973) enolase [Zea mays]'		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112428	Strand	+
Start	15882	End	18044
Name	OJ990304_07.0419.C10.o3.gs	Method	GENSCAN
Start	15882	End	18044
GI	none	Score	.96
Exons	15882..16778, 17439..18044		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112429	Strand	+
Start	25283	End	40606
Name	OJ990304_07.0419.C10.o3.np	Method	AAT/NAP
Start	25260	End	26929
GI	5921185	Score	988
Exons	25260..26165, 26301..26929		
GI Descrip.	CYTOCHROME P450 76C1 gi|2979548|gb|AAC06157.1| (AC003680) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112429	Strand	+
Start	25283	End	40606

Name	OJ990304_07.0419.C10.o5.gs	Method	GENSCAN
Start	25283	End	40606
GI	none	Score	.51
Exons	25283..26182, 26312..26842, 27348..27420, 29560..29600, 29709..29808, 29960..30036, 30209..30299, 31997..32077, 32796..33258, 33343..33436, 34750..34929, 35026..35174, 37959..38865, 39618..39621, 39886..40097, 40207..40314, 40369..40389, 40442..40606		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112429	Strand	+
Start	25283	End	40606
Name	OJ990304_07.0419.C10.o4.gp	Method	AAT/GAP
Start	25943	End	26757
GI	6930_1.R1084	Score	1313
Exons	25943..26182, 26312..26757		
GI Descrip.	'5921185/sp|O64636|C7C1_ARATH 4.0e-57 CYTOCHROME P450 76C1 >gi_2979548 (AC003680) putative 7-ethoxycoumarin O-deethylase [Arabidopsis thaliana]'		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112429	Strand	+
Start	25283	End	40606
Name	OJ990304_07.0419.C10.o5.gp	Method	AAT/GAP
Start	27101	End	27578
GI	none	Score	885
Exons	27101..27578		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112429	Strand	+
Start	25283	End	40606
Name	OJ990304_07.0419.C10.o6.gp	Method	AAT/GAP
Start	31728	End	32922
GI	none	Score	906
Exons	31728..31916, 32628..32922		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112429	Strand	+
Start	25283	End	40606
Name	OJ990304_07.0419.C10.o4.np	Method	AAT/NAP
Start	32687	End	38844
GI	4432821	Score	1859
Exons	32687..33258, 33343..33663, 34325..34547, 34750..34929, 35026..35232, 36137..36214, 36289..36359, 36459..36569, 37959..38161, 38198..38263, 38318..38844		
GI Descrip.	(AC006593) unknown protein [Arabidopsis thaliana]		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112430	Strand	+
Start	43850	End	45395
Name	OJ990304_07.0419.C10.o6.np	Method	AAT/NAP
Start	43850	End	45395
GI	6539571	Score	72
Exons	43850..43988, 44947..45057, 45300..45395		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10

Gene No.	112431	Strand	+
Start	46553	End	47952
Name	OJ990304_07.0419.C10.o7.gs	Method	GENSCAN
Start	46553	End	47952
GI	none	Score	.43
Exons	46553..47198, 47602..47671, 47832..47952		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112432	Strand	-
Start	13603	End	15377
Name	OJ990304_07.0419.C10.o2.gs	Method	GENSCAN
Start	13603	End	15377
GI	none	Score	.47
Exons	13603..14201, 14824..14996, 15205..15377		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112433	Strand	-
Start	20192	End	24500
Name	OJ990304_07.0419.C10.o2.np	Method	AAT/NAP
Start	20192	End	24500
GI	7444451	Score	4348
Exons	20192..24500		
GI Descrip.	probable gag/pol polyprotein - long-staminate rice retrotransposon retrofit gi|2586082|gb|AAB82754.1| (U72725) retrofit [Oryza longistaminata]		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112434	Strand	-
Start	38771	End	39140
Name	OJ990304_07.0419.C10.o7.gp	Method	AAT/GAP
Start	38771	End	39140
GI	uC-osflcyp173a11a1	Score	617
Exons	38771..39140		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	6470	End	10942
GI	none	Score	120
Exons	6470..6544, 6471..6545, 7164..7232, 7166..7234, 7410..7478, 7414..7479, 7414..7482, 7415..7483, 7416..7481, 8064..8114, 8064..8114, 8066..8116, 8066..8116, 8182..8280, 8186..8278, 8191..8292, 8193..8282, 8384..8467, 8385..8456, 8386..8463, 8560..8670, 8566..8670, 8568..8672, 8749..8838, 8754..8822, 8883..8990, 8900..8992, 8909..8986, 8913..8990, 9377..9445, 9379..9447, 9380..9445, 9530..9586, 9544..9591, 9546..9590, 9591..9623, 9654..9896, 9678..9896, 9983..10036, 9984..10046, 10116..10253, 10118..10204, 10120..10254, 10301..10354, 10302..10355, 10303..10356, 10310..10357, 10479..10544, 10487..10546, 10554..10595, 10732..10836, 10738..10836, 10880..10942		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-

Start	41601	End	44274
Name	OJ990304_07.0419.C10.o3.tc	Method	TBLASTX:Cress
Start	6479	End	8672
GI	none	Score	95
Exons	6479..6544, 6480..6545, 7164..7232, 7166..7231, 7410..7478, 7414..7479, 8064..8114, 8064..8114, 8066..8116, 8182..8280, 8191..8292, 8193..8282, 8384..8467, 8386..8463, 8560..8670, 8566..8670, 8568..8672		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o6.ts	Method	TBLASTX:Soybean
Start	6479	End	8637
GI	none	Score	99
Exons	6479..6550, 6480..6545, 7164..7232, 7166..7231, 7410..7472, 7414..7479, 8064..8114, 8066..8116, 8066..8116, 8182..8280, 8186..8278, 8191..8292, 8193..8291, 8384..8467, 8386..8457, 8560..8637, 8568..8636		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o2.tw	Method	TBLASTX:Wheat
Start	8237	End	8838
GI	none	Score	67
Exons	8237..8278, 8247..8282, 8248..8283, 8384..8467, 8385..8462, 8386..8463, 8557..8670, 8560..8670, 8568..8672, 8637..8672, 8749..8838, 8754..8837		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o2.ts	Method	TBLASTX:Soybean
Start	8638	End	10830
GI	none	Score	49
Exons	8638..8670, 8640..8672, 8749..8799, 8754..8789, 8796..8837, 8797..8838, 8898..8981, 8909..8959, 9377..9445, 9380..9442, 9411..9446, 9542..9622, 9544..9630, 9546..9623, 9548..9631, 9678..9893, 9678..9890, 9703..9912, 9975..10061, 9981..10046, 10116..10202, 10118..10204, 10120..10230, 10301..10354, 10302..10355, 10407..10484, 10445..10546, 10488..10544, 10732..10830		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o2.tc	Method	TBLASTX:Cress
Start	8773	End	10833
GI	none	Score	88
Exons	8773..8832, 8781..8837, 8782..8838, 8883..8990, 8913..8990, 8915..8992, 8915..8992, 9380..9445, 9380..9445, 9537..9623, 9541..9630, 9544..9630, 9678..9893, 9678..9890, 9981..10046, 9983..10036, 10115..10201, 10118..10204, 10120..10206, 10301..10354, 10302..10355, 10303..10362, 10479..10544, 10487..10546, 10732..10833		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o3.tw	Method	TBLASTX:Wheat
Start	9720	End	10194
GI	none	Score	290
Exons	9720..9896, 9721..9894, 9723..9896, 9724..9897, 9983..10036, 9984..10046, 9993..10046, 10093..10194, 10115..10192, 10120..10194		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o4.tw	Method	TBLASTX:Wheat
Start	15882	End	25675
GI	none	Score	221
Exons	15882..16067, 16020..16187, 16025..16186, 16193..16246, 16218..16247, 16233..16274, 25268..25588, 25367..25468, 25399..25587, 25588..25674, 25592..25675		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	16020	End	26842
GI	none	Score	327
Exons	16020..16457, 16485..16694, 17430..17498, 17439..17945, 17444..17944, 17576..17947, 17583..17948, 25373..25900, 25862..26098, 26300..26842, 26300..26797, 26566..26817		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	16020	End	26911
GI	none	Score	116
Exons	16020..16178, 16245..16376, 17427..18032, 17439..18038, 17453..18040, 25364..25597, 25652..25759, 26302..26460, 26303..26911, 26342..26905, 26563..26910		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o2.tm	Method	TBLASTX:Maize
Start	16038	End	26911
GI	none	Score	85
Exons	16038..16178, 16245..16304, 17439..18038, 17447..17938, 17535..18029, 25373..25576, 26305..26490, 26306..26911, 26312..26866		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o13.tm	Method	TBLASTX:Maize
Start	16377	End	26122
GI	none	Score	90
Exons	16377..16472, 16488..16718, 25778..25873, 25790..25882,		

25897..26121, 25898..26122

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o7.tw	Method	TBLASTX:Wheat
Start	17439	End	26620
GI	none	Score	255
Exons	17439..17747, 17601..17747, 26312..26620, 26342..26617		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o9.tw	Method	TBLASTX:Wheat
Start	17771	End	26875
GI	none	Score	196
Exons	17771..18001, 17772..18002, 26644..26871, 26645..26875		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o8.ts	Method	TBLASTX:Soybean
Start	19566	End	19955
GI	none	Score	53
Exons	19566..19604, 19570..19614, 19615..19731, 19724..19774, 19729..19773, 19785..19955, 19797..19952		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o16.tm	Method	TBLASTX:Maize
Start	19788	End	44274
GI	none	Score	186
Exons	19788..19985, 19788..19973, 43829..43945, 43832..43864, 43859..43972, 44031..44090, 44068..44118, 44212..44274		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o7.tc	Method	TBLASTX:Cress
Start	20216	End	20665
GI	none	Score	44
Exons	20216..20410, 20223..20411, 20450..20566, 20451..20537, 20576..20665		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o3.ts	Method	TBLASTX:Soybean
Start	20243	End	20839
GI	none	Score	223
Exons	20243..20839, 20244..20645, 20450..20650, 20685..20837		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o4.tm	Method	TBLASTX:Maize

Start	20249	End	20672
GI	none	Score	67
Exons	20249..20371, 20249..20536, 20316..20537, 20538..20672, 20543..20671		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	20603	End	21040
GI	none	Score	142
Exons	20603..21040, 20606..21040		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o8.tm	Method	TBLASTX:Maize
Start	20675	End	20926
GI	none	Score	118
Exons	20675..20926, 20712..20921		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o5.tc	Method	TBLASTX:Cress
Start	20906	End	21157
GI	none	Score	68
Exons	20906..21091, 20912..21157		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o5.tm	Method	TBLASTX:Maize
Start	20981	End	21417
GI	none	Score	105
Exons	20981..21217, 21220..21417, 21242..21403		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o5.tw	Method	TBLASTX:Wheat
Start	21041	End	21496
GI	none	Score	61
Exons	21041..21217, 21232..21390, 21235..21492, 21242..21496		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o7.ts	Method	TBLASTX:Soybean
Start	21217	End	21704
GI	5509260	Score	128
Exons	21217..21492, 21227..21391, 21431..21493, 21474..21704, 21522..21677		
GI Descrip.	-		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-

Start	41601	End	44274
Name	OJ990304_07.0419.C10.o4.tc	Method	TBLASTX:Cress
Start	22264	End	22728
GI	none	Score	113
Exons	22264..22728, 22438..22716		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o11.tm	Method	TBLASTX:Maize
Start	22279	End	22911
GI	none	Score	66
Exons	22279..22728, 22565..22717, 22843..22911		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o9.ts	Method	TBLASTX:Soybean
Start	22282	End	22701
GI	none	Score	273
Exons	22282..22701		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o6.tw	Method	TBLASTX:Wheat
Start	22300	End	22905
GI	none	Score	101
Exons	22300..22440, 22444..22509, 22513..22707, 22732..22905, 22733..22885		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o10.ts	Method	TBLASTX:Soybean
Start	22723	End	23136
GI	none	Score	92
Exons	22723..22902, 22918..23025, 23035..23136		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o8.tw	Method	TBLASTX:Wheat
Start	23222	End	23607
GI	none	Score	92
Exons	23222..23407, 23227..23502, 23346..23459, 23460..23576, 23505..23564, 23506..23607		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o15.tm	Method	TBLASTX:Maize
Start	23227	End	23502
GI	none	Score	208
Exons	23227..23502		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10

Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o11.tw	Method	TBLASTX:Wheat
Start	23922	End	24155
GI	none	Score	89
Exons	23922..24155, 23935..24129		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o6.tm	Method	TBLASTX:Maize
Start	23977	End	24404
GI	none	Score	174
Exons	23977..24261, 24000..24272, 24297..24404, 24298..24402		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o9.tm	Method	TBLASTX:Maize
Start	34379	End	34932
GI	none	Score	295
Exons	34379..34558, 34380..34559, 34701..34925, 34722..34922, 34747..34932, 34753..34929		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o4.ts	Method	TBLASTX:Soybean
Start	34749	End	36348
GI	none	Score	179
Exons	34749..34925, 34750..34932, 34750..34932, 35025..35180, 35026..35232, 35029..35232, 36134..36214, 36139..36249, 36286..36348		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o7.tm	Method	TBLASTX:Maize
Start	35059	End	36573
GI	none	Score	265
Exons	35059..35229, 35059..35229, 35060..35230, 36137..36214, 36143..36214, 36284..36358, 36286..36369, 36288..36380, 36456..36569, 36457..36573		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o18.tm	Method	TBLASTX:Maize
Start	37935	End	38129
GI	none	Score	193
Exons	37935..38129, 37942..38124		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o14.tm	Method	TBLASTX:Maize
Start	38133	End	38286

GI	none	Score	222
Exons	38133..38285, 38134..38286, 38140..38286		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o3.tm	Method	TBLASTX:Maize
Start	38290	End	38910
GI	none	Score	84
Exons	38290..38397, 38405..38545, 38441..38527, 38506..38901, 38522..38905, 38529..38657, 38536..38910		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o10.tm	Method	TBLASTX:Maize
Start	41400	End	41838
GI	none	Score	50
Exons	41400..41426, 41469..41489, 41503..41550, 41520..41555, 41522..41551, 41553..41579, 41596..41646, 41597..41626, 41601..41807, 41601..41834, 41710..41838		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o6.gs	Method	GENSCAN
Start	41601	End	43728
GI	none	Score	.94
Exons	41601..41960, 42178..42282, 42755..43556, 43667..43728		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o5.np	Method	AAT/NAP
Start	41604	End	43713
GI	6730631	Score	748
Exons	41604..41960, 42178..42282, 42755..43556, 43667..43713		
GI Descrip.	(AC008262) F4N2.2 [Arabidopsis thaliana]		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o5.ts	Method	TBLASTX:Soybean
Start	41763	End	43559
GI	none	Score	105
Exons	41763..41930, 42914..43237, 43041..43229, 43358..43420, 43380..43421, 43415..43558, 43416..43559		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o10.tw	Method	TBLASTX:Wheat
Start	41838	End	42288
GI	none	Score	168
Exons	41838..41963, 41850..41963, 42177..42284, 42178..42288, 42178..42285		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o12.tm	Method	TBLASTX:Maize
Start	42173	End	42920
GI	none	Score	127
Exons	42173..42283, 42177..42293, 42178..42294, 42178..42294, 42755..42904, 42755..42919, 42762..42920		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o11.ts	Method	TBLASTX:Soybean
Start	42184	End	42913
GI	none	Score	195
Exons	42184..42282, 42761..42913		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o12.tw	Method	TBLASTX:Wheat
Start	42722	End	42913
GI	none	Score	115
Exons	42722..42901, 42755..42913		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o6.tc	Method	TBLASTX:Cress
Start	42755	End	42985
GI	none	Score	77
Exons	42755..42904, 42755..42913, 42771..42917, 42935..42985		

Seq. No.	53379	Seq. ID	OJ990304_07.0419.C10
Gene No.	112435	Strand	-
Start	41601	End	44274
Name	OJ990304_07.0419.C10.o17.tm	Method	TBLASTX:Maize
Start	43028	End	43243
GI	none	Score	103
Exons	43028..43240, 43041..43229, 43145..43243		

Seq. No.	53380	Seq. ID	OJ990524_01.0421.C3
Gene No.	112436	Strand	+
Start	103	End	1010
Name	OJ990524_01.0421.C3.o1.gs	Method	GENSCAN
Start	103	End	832
GI	none	Score	.47
Exons	103..129, 793..832		

Seq. No.	53380	Seq. ID	OJ990524_01.0421.C3
Gene No.	112436	Strand	+
Start	103	End	1010
Name	OJ990524_01.0421.C3.o1.gp	Method	AAT/GAP
Start	655	End	1010
GI	572104	Score	327
Exons	655..839, 990..1010		

Seq. No.	53381	Seq. ID	OJ990524_01.0421.C6
Gene No.	112437	Strand	-
Start	59	End	1521
Name	OJ990524_01.0421.C6.o1.gs	Method	GENSCAN
Start	59	End	1521
GI	none	Score	.64
Exons	59..193, 1025..1133, 1466..1521		

Seq. No.	53382	Seq. ID	OJ990524_01.0421.C7
Gene No.	112438	Strand	+
Start	1	End	2255
Name	OJ990524_01.0421.C7.o1.gp	Method	AAT/GAP
Start	1	End	2255
GI	2878_1.R1084	Score	2518
Exons	1..82, 182..456, 1317..2255		
GI Descrip.	'4325282/gb|AAD17313| 6.0e-49 (AF123310) NAC domain protein NAM [Arabidopsis thaliana] >gi_4325286_gb_AAD17314_ (AF123311) NAC domain protein NAM [Arabidopsis thaliana]'		

Seq. No.	53382	Seq. ID	OJ990524_01.0421.C7
Gene No.	112438	Strand	+
Start	1	End	2255
Name	OJ990524_01.0421.C7.o1.ts	Method	TBLASTX:Soybean
Start	1	End	1784
GI	none	Score	116
Exons	1..81, 21..68, 145..225, 168..431, 169..459, 346..456, 1311..1370, 1318..1350, 1524..1571, 1562..1630, 1563..1628, 1749..1784, 1751..1780		

Seq. No.	53382	Seq. ID	OJ990524_01.0421.C7
Gene No.	112438	Strand	+
Start	1	End	2255
Name	OJ990524_01.0421.C7.o1.tm	Method	TBLASTX:Maize
Start	1	End	1769
GI	none	Score	153
Exons	1..84, 3..77, 49..78, 145..459, 169..225, 179..241, 183..434, 346..456, 1150..1224, 1311..1361, 1315..1350, 1316..1354, 1439..1492, 1440..1493, 1466..1564, 1497..1571, 1565..1597, 1566..1598, 1586..1654, 1608..1658, 1677..1769		

Seq. No.	53382	Seq. ID	OJ990524_01.0421.C7
Gene No.	112438	Strand	+
Start	1	End	2255
Name	OJ990524_01.0421.C7.o1.np	Method	AAT/NAP
Start	1	End	1784
GI	6730942	Score	1409
Exons	1..82, 182..456, 1317..1784		
GI Descrip.	(AB028185) OsNAC6 protein [Oryza sativa]		

Seq. No.	53382	Seq. ID	OJ990524_01.0421.C7
Gene No.	112438	Strand	+
Start	1	End	2255
Name	OJ990524_01.0421.C7.o1.tc	Method	TBLASTX:Cress
Start	1	End	1784
GI	none	Score	119
Exons	1..81, 21..77, 169..450, 180..431, 346..447, 1311..1370, 1318..1350, 1518..1640, 1562..1636, 1749..1784		

Seq. No.	53382	Seq. ID	OJ990524_01.0421.C7
Gene No.	112438	Strand	+
Start	1	End	2255
Name	OJ990524_01.0421.C7.o1.gs	Method	GENSCAN
Start	184	End	1787
GI	none	Score	.9
Exons	184..456, 1317..1787		

Seq. No.	53382	Seq. ID	OJ990524_01.0421.C7
Gene No.	112438	Strand	+
Start	1	End	2255
Name	OJ990524_01.0421.C7.o1.tw	Method	TBLASTX:Wheat
Start	188	End	1340
GI	none	Score	205
Exons	188..241, 189..311, 190..312, 297..407, 322..465, 327..428, 346..465, 1150..1230, 1311..1340		

Seq. No.	53382	Seq. ID	OJ990524_01.0421.C7
Gene No.	112438	Strand	+
Start	1	End	2255
Name	OJ990524_01.0421.C7.o2.tw	Method	TBLASTX:Wheat
Start	1341	End	1904
GI	none	Score	45
Exons	1341..1373, 1449..1508, 1451..1507, 1515..1592, 1532..1588, 1607..1666, 1608..1667, 1689..1823, 1739..1783, 1753..1794, 1878..1904, 1879..1899		

Seq. No.	53383	Seq. ID	OJ990524_01.0421.C10
Gene No.	112439	Strand	+
Start	1	End	1136
Name	OJ990524_01.0421.C10.o1.np	Method	AAT/NAP
Start	1	End	1136
GI	6850884	Score	592
Exons	1..725, 831..1136		
GI Descrip.	(AL137898) putative protein [Arabidopsis thaliana]		

Seq. No.	53383	Seq. ID	OJ990524_01.0421.C10
Gene No.	112439	Strand	+
Start	1	End	1136
Name	OJ990524_01.0421.C10.o1.gs	Method	GENSCAN
Start	54	End	1102
GI	none	Score	.8
Exons	54..1102		

Seq. No.	53383	Seq. ID	OJ990524_01.0421.C10
Gene No.	112439	Strand	+
Start	1	End	1136
Name	OJ990524_01.0421.C10.o2.ts	Method	TBLASTX:Soybean
Start	287	End	752
GI	none	Score	104
Exons	287..451, 468..752, 593..658		

Seq. No.	53383	Seq. ID	OJ990524_01.0421.C10
Gene No.	112439	Strand	+
Start	1	End	1136
Name	OJ990524_01.0421.C10.o1.tm	Method	TBLASTX:Maize

Start	290	End	1136
GI	none	Score	66
Exons	290..457, 296..457, 296..457, 380..457, 464..724, 474..797, 477..977, 507..773, 509..913, 681..848, 993..1136		

Seq. No.	53383	Seq. ID	OJ990524_01.0421.C10
Gene No.	112439	Strand	+
Start	1	End	1136
Name	OJ990524_01.0421.C10.o1.tw	Method	TBLASTX:Wheat
Start	290	End	905
GI	none	Score	91
Exons	290..457, 477..905, 596..736, 788..889		

Seq. No.	53383	Seq. ID	OJ990524_01.0421.C10
Gene No.	112439	Strand	+
Start	1	End	1136
Name	OJ990524_01.0421.C10.o1.tc	Method	TBLASTX:Cress
Start	686	End	968
GI	none	Score	275
Exons	686..913, 687..965, 759..968		

Seq. No.	53383	Seq. ID	OJ990524_01.0421.C10
Gene No.	112439	Strand	+
Start	1	End	1136
Name	OJ990524_01.0421.C10.o1.ts	Method	TBLASTX:Soybean
Start	765	End	1136
GI	none	Score	191
Exons	765..977, 767..880, 990..1136		

Seq. No.	53384	Seq. ID	OJ990524_01.0421.C11
Gene No.	112440	Strand	+
Start	540	End	684
Name	OJ990524_01.0421.C11.o1.gp	Method	AAT/GAP
Start	540	End	684
GI	3768633	Score	223
Exons	540..684		

Seq. No.	53385	Seq. ID	OJ990524_01.0421.C23
Gene No.	112441	Strand	+
Start	414	End	508
Name	OJ990524_01.0421.C23.o1.gp	Method	AAT/GAP
Start	414	End	508
GI	1632536	Score	139
Exons	414..508		
GI Descrip.	5777618/emb|CAB53479.1| 5.0e-17 (AJ245900) CAA30376.1 protein [Oryza sativa]		

Seq. No.	53385	Seq. ID	OJ990524_01.0421.C23
Gene No.	112442	Strand	-
Start	409	End	955
Name	OJ990524_01.0421.C23.o1.np	Method	AAT/NAP
Start	409	End	955
GI	5777618	Score	103
Exons	409..561, 848..955		
GI Descrip.	(AJ245900) CAA30376.1 protein [Oryza sativa]		

Seq. No.	53385	Seq. ID	OJ990524_01.0421.C23

Gene No.	112442	Strand	-
Start	409	End	955
Name	OJ990524_01.0421.C23.o1.gs	Method	GENSCAN
Start	428	End	643
GI	none	Score	.82
Exons	428..643		

Seq. No.	53386	Seq. ID	OJ990524_01.0421.C25
Gene No.	112443	Strand	-
Start	1	End	2379
Name	OJ990524_01.0421.C25.o1.np	Method	AAT/NAP
Start	1	End	2379
GI	5295955	Score	200
Exons	1..22, 917..1031, 1574..1694, 2140..2379		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	53386	Seq. ID	OJ990524_01.0421.C25
Gene No.	112443	Strand	-
Start	1	End	2379
Name	OJ990524_01.0421.C25.o1.gs	Method	GENSCAN
Start	382	End	1788
GI	none	Score	.66
Exons	382..501, 908..1031, 1506..1788		

Seq. No.	53387	Seq. ID	OJ990524_01.0421.C28
Gene No.	112444	Strand	-
Start	42	End	1024
Name	OJ990524_01.0421.C28.o1.gs	Method	GENSCAN
Start	42	End	649
GI	none	Score	.58
Exons	42..473, 557..649		

Seq. No.	53387	Seq. ID	OJ990524_01.0421.C28
Gene No.	112444	Strand	-
Start	42	End	1024
Name	OJ990524_01.0421.C28.o1.tm	Method	TBLASTX:Maize
Start	238	End	658
GI	none	Score	344
Exons	238..474, 252..473, 539..655, 555..650, 557..658		

Seq. No.	53387	Seq. ID	OJ990524_01.0421.C28
Gene No.	112444	Strand	-
Start	42	End	1024
Name	OJ990524_01.0421.C28.o1.np	Method	AAT/NAP
Start	250	End	1024
GI	2462839	Score	402
Exons	250..473, 557..657, 986..1024		
GI Descrip.	(AF000657) unknown protein [Arabidopsis thaliana]		

Seq. No.	53387	Seq. ID	OJ990524_01.0421.C28
Gene No.	112444	Strand	-
Start	42	End	1024
Name	OJ990524_01.0421.C28.o1.ts	Method	TBLASTX:Soybean
Start	304	End	655
GI	none	Score	37
Exons	304..327, 307..375, 324..461, 342..398, 361..474, 372..473,		

463..492, 539..655, 555..647

Seq. No.	53388	Seq. ID	OJ990524_01.0421.C36
Gene No.	112445	Strand	-
Start	1	End	1315
Name	OJ990524_01.0421.C36.o1.np	Method	AAT/NAP
Start	1	End	1315
GI	5091617	Score	476
Exons	1..33, 357..1315		
GI Descrip.	(AC007454) Contains similarity to gi|479356 protein kinase PK1 from Zea mays, is a member of the PF|00954 S-locus glycoprotein family and contains a PF|00069 Eukaryotic protein kinase domain. [Arabidopsis thaliana]		

Seq. No.	53388	Seq. ID	OJ990524_01.0421.C36
Gene No.	112445	Strand	-
Start	1	End	1315
Name	OJ990524_01.0421.C36.o1.tm	Method	TBLASTX:Maize
Start	337	End	1070
GI	none	Score	84
Exons	337..492, 366..518, 522..716, 604..705, 723..773, 795..926, 796..915, 960..1070		

Seq. No.	53388	Seq. ID	OJ990524_01.0421.C36
Gene No.	112445	Strand	-
Start	1	End	1315
Name	OJ990524_01.0421.C36.o1.ts	Method	TBLASTX:Soybean
Start	357	End	773
GI	none	Score	195
Exons	357..704, 373..705, 720..773		

Seq. No.	53388	Seq. ID	OJ990524_01.0421.C36
Gene No.	112445	Strand	-
Start	1	End	1315
Name	OJ990524_01.0421.C36.o1.tc	Method	TBLASTX:Cress
Start	367	End	1044
GI	none	Score	96
Exons	367..501, 369..500, 537..701, 789..1040, 796..1044		

Seq. No.	53388	Seq. ID	OJ990524_01.0421.C36
Gene No.	112445	Strand	-
Start	1	End	1315
Name	OJ990524_01.0421.C36.o1.tw	Method	TBLASTX:Wheat
Start	435	End	855
GI	none	Score	143
Exons	435..497, 528..704, 540..704, 702..773, 712..744, 759..854, 793..855		

Seq. No.	53389	Seq. ID	OJ990524_01.0421.C37
Gene No.	112446	Strand	-
Start	1	End	1105
Name	OJ990524_01.0421.C37.o1.np	Method	AAT/NAP
Start	1	End	1105
GI	1346396	Score	775
Exons	1..1105		
GI Descrip.	PUTATIVE RECEPTOR PROTEIN KINASE ZMPK1 PRECURSOR gi|100913|pir||S10930 probable receptor protein kinase (EC		

2.7.1.-) precursor - maize gi|22432|emb|CAA36611| (X52384) precursor protein (AA -26 to 791) [Zea mays] gi|22436|emb|CAA47962| (X67733) receptor-like protein kinase [Zea mays] gi|226927|prf||1611404A receptor protein kinase [Zea mays]

Seq. No.	53389	Seq. ID	OJ990524_01.0421.C37
Gene No.	112446	Strand	-
Start	1	End	1105
Name	OJ990524_01.0421.C37.o1.gs	Method	GENSCAN
Start	9	End	1099
GI	none	Score	.99
Exons	9..1099		

Seq. No.	53389	Seq. ID	OJ990524_01.0421.C37
Gene No.	112446	Strand	-
Start	1	End	1105
Name	OJ990524_01.0421.C37.o1.tm	Method	TBLASTX:Maize
Start	449	End	772
GI	none	Score	55
Exons	449..619, 483..545, 623..715, 624..698, 716..772		

Seq. No.	53389	Seq. ID	OJ990524_01.0421.C37
Gene No.	112446	Strand	-
Start	1	End	1105
Name	OJ990524_01.0421.C37.o1.tc	Method	TBLASTX:Cress
Start	596	End	841
GI	none	Score	185
Exons	596..841		

Seq. No.	53390	Seq. ID	OJ990524_01.0421.C38
Gene No.	112447	Strand	-
Start	1	End	1708
Name	OJ990524_01.0421.C38.o2.np	Method	AAT/NAP
Start	1	End	1708
GI	7487731	Score	232
Exons	1..57, 416..471, 573..626, 1409..1511, 1596..1708		
GI Descrip.	hypothetical protein T5L19.160 - Arabidopsis thaliana gi|4539006|emb|CAB39627.1| (AL049481) putative protein [Arabidopsis thaliana] gi|7267699|emb|CAB78126.1| (AL161516) putative protein [Arabidopsis thaliana]		

Seq. No.	53390	Seq. ID	OJ990524_01.0421.C38
Gene No.	112447	Strand	-
Start	1	End	1708
Name	OJ990524_01.0421.C38.o1.np	Method	AAT/NAP
Start	106	End	372
GI	6850884	Score	138
Exons	106..372		
GI Descrip.	(AL137898) putative protein [Arabidopsis thaliana]		

Seq. No.	53390	Seq. ID	OJ990524_01.0421.C38
Gene No.	112447	Strand	-
Start	1	End	1708
Name	OJ990524_01.0421.C38.o1.tm	Method	TBLASTX:Maize
Start	1413	End	1641
GI	none	Score	103

Exons	1413..1514, 1414..1515, 1414..1515, 1431..1520, 1583..1639, 1587..1640, 1588..1641		
Seq. No.	53391	Seq. ID	OJ990524_01.0421.C40
Gene No.	112448	Strand	-
Start	58	End	909
Name	OJ990524_01.0421.C40.o1.gs	Method	GENSCAN
Start	58	End	909
GI	none	Score	.46
Exons	58..148, 180..268, 843..909		
Seq. No.	53392	Seq. ID	OJ990524_01.0421.C51
Gene No.	112449	Strand	+
Start	927	End	1083
Name	OJ990524_01.0421.C51.o1.gp	Method	AAT/GAP
Start	927	End	1083
GI	16011_1.R1084	Score	267
Exons	927..1083		
GI Descrip.	'229737/pdb|1CCR| 2.0e-43 Cytochrome c'		
Seq. No.	53392	Seq. ID	OJ990524_01.0421.C51
Gene No.	112449	Strand	+
Start	927	End	1083
Name	OJ990524_01.0421.C51.o1.np	Method	AAT/NAP
Start	971	End	1082
GI	2641197	Score	135
Exons	971..1082		
GI Descrip.	(AF031540) cytochrome C [Fritillaria agrestis]		
Seq. No.	53393	Seq. ID	OJ990524_01.0421.C52
Gene No.	112450	Strand	-
Start	407	End	915
Name	OJ990524_01.0421.C52.o1.gs	Method	GENSCAN
Start	407	End	915
GI	none	Score	.69
Exons	407..494, 896..915		
Seq. No.	53393	Seq. ID	OJ990524_01.0421.C52
Gene No.	112451	Strand	-
Start	1721	End	1993
Name	OJ990524_01.0421.C52.o1.gp	Method	AAT/GAP
Start	1566	End	1991
GI	none	Score	832
Exons	1566..1991		
Seq. No.	53393	Seq. ID	OJ990524_01.0421.C52
Gene No.	112451	Strand	-
Start	1721	End	1993
Name	OJ990524_01.0421.C52.o1.tm	Method	TBLASTX:Maize
Start	1610	End	1961
GI	none	Score	44
Exons	1610..1639, 1610..1639, 1611..1643, 1694..1762, 1703..1741, 1705..1824, 1707..1832, 1713..1826, 1786..1947, 1841..1960, 1844..1957, 1866..1961		
Seq. No.	53393	Seq. ID	OJ990524_01.0421.C52
Gene No.	112451	Strand	-

Start	1721	End	1993
Name	OJ990524_01.0421.C52.o2.gs	Method	GENSCAN
Start	1721	End	1993
GI	none	Score	.85
Exons	1721..1993		

Seq. No.	53394	Seq. ID	OJ990524_01.0421.C53
Gene No.	112452	Strand	+
Start	222	End	299
Name	OJ990524_01.0421.C53.o1.gs	Method	GENSCAN
Start	222	End	299
GI	none	Score	1
Exons	222..299		

Seq. No.	53395	Seq. ID	OJ990524_01.0421.C57
Gene No.	112453	Strand	+
Start	1	End	282
Name	OJ990524_01.0421.C57.o1.np	Method	AAT/NAP
Start	1	End	282
GI	7486443	Score	288
Exons	1..282		
GI Descrip.	hypothetical protein F4I10.100 - Arabidopsis thaliana gi|4455331|emb|CAB36791.1| (AL035525) putative protein [Arabidopsis thaliana] gi|7270265|emb|CAB80034.1| (AL161583) putative protein [Arabidopsis thaliana]		

Seq. No.	53395	Seq. ID	OJ990524_01.0421.C57
Gene No.	112453	Strand	+
Start	1	End	282
Name	OJ990524_01.0421.C57.o1.gs	Method	GENSCAN
Start	61	End	281
GI	none	Score	.66
Exons	61..281		

Seq. No.	53395	Seq. ID	OJ990524_01.0421.C57
Gene No.	112454	Strand	-
Start	395	End	830
Name	OJ990524_01.0421.C57.o1.ts	Method	TBLASTX:Soybean
Start	57	End	285
GI	none	Score	282
Exons	57..284, 58..285		

Seq. No.	53395	Seq. ID	OJ990524_01.0421.C57
Gene No.	112454	Strand	-
Start	395	End	830
Name	OJ990524_01.0421.C57.o1.tm	Method	TBLASTX:Maize
Start	58	End	335
GI	none	Score	284
Exons	58..297, 70..282, 81..335		

Seq. No.	53395	Seq. ID	OJ990524_01.0421.C57
Gene No.	112454	Strand	-
Start	395	End	830
Name	OJ990524_01.0421.C57.o1.tc	Method	TBLASTX:Cress
Start	67	End	297
GI	none	Score	273
Exons	67..297, 139..282, 144..296		

Seq. No.	53395	Seq. ID	OJ990524_01.0421.C57
Gene No.	112454	Strand	-
Start	395	End	830
Name	OJ990524_01.0421.C57.o1.gp	Method	AAT/GAP
Start	395	End	830
GI	50988_1.R1084	Score	465
Exons	395..551, 702..830		
GI Descrip.	'2462839 1.0e-12 (AF000657) unknown protein [Arabidopsis thaliana]'		

Seq. No.	53395	Seq. ID	OJ990524_01.0421.C57
Gene No.	112454	Strand	-
Start	395	End	830
Name	OJ990524_01.0421.C57.o2.np	Method	AAT/NAP
Start	507	End	809
GI	2462839	Score	82
Exons	507..551, 702..809		
GI Descrip.	(AF000657) unknown protein [Arabidopsis thaliana]		

Seq. No.	53396	Seq. ID	OJ990524_01.0421.C60
Gene No.	112455	Strand	+
Start	817	End	1919
Name	OJ990524_01.0421.C60.o1.gs	Method	GENSCAN
Start	817	End	1919
GI	none	Score	.52
Exons	817..865, 1755..1919		

Seq. No.	53397	Seq. ID	OJ990524_01.0421.C61
Gene No.	112456	Strand	+
Start	1317	End	1765
Name	OJ990524_01.0421.C61.o1.gp	Method	AAT/GAP
Start	1317	End	1765
GI	none	Score	861
Exons	1317..1765		

Seq. No.	53397	Seq. ID	OJ990524_01.0421.C61
Gene No.	112457	Strand	-
Start	24	End	831
Name	OJ990524_01.0421.C61.o1.gs	Method	GENSCAN
Start	24	End	831
GI	none	Score	.44
Exons	24..188, 633..713, 802..831		

Seq. No.	53397	Seq. ID	OJ990524_01.0421.C61
Gene No.	112458	Strand	
Start	1565	End	1784
Name	OJ990524_01.0421.C61.o1.tc	Method	TBLASTX:Cress
Start	1565	End	1780
GI	none	Score	63
Exons	1565..1633, 1566..1634, 1664..1780, 1665..1778		

Seq. No.	53397	Seq. ID	OJ990524_01.0421.C61
Gene No.	112458	Strand	
Start	1565	End	1784
Name	OJ990524_01.0421.C61.o1.tm	Method	TBLASTX:Maize
Start	1565	End	1784

GI	none	Score	149
Exons	1565..1783, 1568..1783, 1587..1784		
Seq. No.	53397	Seq. ID	OJ990524_01.0421.C61
Gene No.	112458	Strand	
Start	1565	End	1784
Name	OJ990524_01.0421.C61.o1.ts	Method	TBLASTX:Soybean
Start	1565	End	1780
GI	none	Score	72
Exons	1565..1780, 1566..1778		
Seq. No.	53398	Seq. ID	OJ990324_03.0419.C1
Gene No.	112459	Strand	+
Start	176	End	776
Name	OJ990324_03.0419.C1.o1.gs	Method	GENSCAN
Start	176	End	776
GI	none	Score	.47
Exons	176..280, 684..776		
Seq. No.	53399	Seq. ID	OJ990324_03.0419.C2
Gene No.	112460	Strand	-
Start	521	End	1867
Name	OJ990324_03.0419.C2.o1.gp	Method	AAT/GAP
Start	260	End	357
GI	LIB3477-003-P1-K1-E9	Score	137
Exons	260..357		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		
Seq. No.	53399	Seq. ID	OJ990324_03.0419.C2
Gene No.	112460	Strand	-
Start	521	End	1867
Name	OJ990324_03.0419.C2.o1.gs	Method	GENSCAN
Start	521	End	1867
GI	none	Score	.69
Exons	521..706, 755..884, 1136..1246, 1343..1516, 1626..1867		
Seq. No.	53399	Seq. ID	OJ990324_03.0419.C2
Gene No.	112460	Strand	-
Start	521	End	1867
Name	OJ990324_03.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	1177	End	1699
GI	none	Score	68
Exons	1177..1248, 1348..1530, 1355..1480, 1619..1699		
Seq. No.	53400	Seq. ID	OJ990324_03.0419.C3
Gene No.	112461	Strand	-
Start	1	End	2430
Name	OJ990324_03.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	2430
GI	4680204	Score	921
Exons	1..19, 389..919, 994..2430		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		
Seq. No.	53400	Seq. ID	OJ990324_03.0419.C3
Gene No.	112461	Strand	-

Start	1	End	2430
Name	OJ990324_03.0419.C3.o1.gs	Method	GENSCAN
Start	52	End	2415
GI	none	Score	.63
Exons	52..508, 510..652, 778..919, 994..2415		

Seq. No.	53400	Seq. ID	OJ990324_03.0419.C3
Gene No.	112461	Strand	-
Start	1	End	2430
Name	OJ990324_03.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	1384	End	1787
GI	none	Score	91
Exons	1384..1479, 1517..1684, 1549..1785, 1636..1785, 1647..1787, 1677..1787		

Seq. No.	53401	Seq. ID	OJ990324_03.0419.C7
Gene No.	112462	Strand	+
Start	1	End	930
Name	OJ990324_03.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	930
GI	7228457	Score	1034
Exons	1..716, 780..930		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	53401	Seq. ID	OJ990324_03.0419.C7
Gene No.	112463	Strand	-
Start	44	End	908
Name	OJ990324_03.0419.C7.o1.gs	Method	GENSCAN
Start	44	End	800
GI	none	Score	.72
Exons	44..121, 143..476, 528..800		

Seq. No.	53401	Seq. ID	OJ990324_03.0419.C7
Gene No.	112463	Strand	-
Start	44	End	908
Name	OJ990324_03.0419.C7.o1.tw	Method	TBLASTX:Wheat
Start	188	End	908
GI	none	Score	401
Exons	188..322, 189..680, 344..661, 657..908, 711..908		

Seq. No.	53402	Seq. ID	OJ990324_03.0419.C10
Gene No.	112464	Strand	-
Start	32	End	92
Name	OJ990324_03.0419.C10.o1.gs	Method	GENSCAN
Start	32	End	92
GI	none	Score	.75
Exons	32..92		

Seq. No.	53403	Seq. ID	OJ990324_03.0419.C12
Gene No.	112465	Strand	+
Start	1	End	846
Name	OJ990324_03.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	846
GI	7228457	Score	920
Exons	1..846		

GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	53403	Seq. ID	OJ990324_03.0419.C12
Gene No.	112465	Strand	+
Start	1	End	846
Name	OJ990324_03.0419.C12.o1.gs	Method	GENSCAN
Start	74	End	836
GI	none	Score	.47
Exons	74..252, 466..836		
Seq. No.	53403	Seq. ID	OJ990324_03.0419.C12
Gene No.	112465	Strand	+
Start	1	End	846
Name	OJ990324_03.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	107	End	455
GI	none	Score	116
Exons	107..214, 108..215, 182..421, 183..455		
Seq. No.	53404	Seq. ID	OJ990324_03.0419.C15
Gene No.	112466	Strand	-
Start	1	End	942
Name	OJ990324_03.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	942
GI	4586045	Score	409
Exons	1..351, 759..942		
GI Descrip.	(AC007020) unknown protein [Arabidopsis thaliana]		
Seq. No.	53404	Seq. ID	OJ990324_03.0419.C15
Gene No.	112466	Strand	-
Start	1	End	942
Name	OJ990324_03.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	181	End	368
GI	none	Score	194
Exons	181..357, 202..363, 203..358, 213..368		
Seq. No.	53404	Seq. ID	OJ990324_03.0419.C15
Gene No.	112466	Strand	-
Start	1	End	942
Name	OJ990324_03.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	181	End	818
GI	none	Score	127
Exons	181..354, 202..354, 228..356, 756..818		
Seq. No.	53404	Seq. ID	OJ990324_03.0419.C15
Gene No.	112466	Strand	-
Start	1	End	942
Name	OJ990324_03.0419.C15.o1.gs	Method	GENSCAN
Start	202	End	902
GI	none	Score	.96
Exons	202..351, 759..902		
Seq. No.	53404	Seq. ID	OJ990324_03.0419.C15
Gene No.	112466	Strand	-
Start	1	End	942
Name	OJ990324_03.0419.C15.o1.tc	Method	TBLASTX:Cress

Start	202	End	927
GI	none	Score	71
Exons	202..354, 202..354, 219..362, 756..827, 835..927, 840..926		

Seq. No.	53405	Seq. ID	OJ990324_03.0419.C16
Gene No.	112467	Strand	+
Start	110	End	1390
Name	OJ990324_03.0419.C16.o1.gs	Method	GENSCAN
Start	110	End	1390
GI	none	Score	.78
Exons	110..926, 1158..1390		

Seq. No.	53405	Seq. ID	OJ990324_03.0419.C16
Gene No.	112468	Strand	-
Start	1	End	402
Name	OJ990324_03.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	402
GI	4586045	Score	177
Exons	1..62, 182..402		
GI Descrip.	(AC007020) unknown protein [Arabidopsis thaliana]		

Seq. No.	53406	Seq. ID	OJ990324_03.0419.C18
Gene No.	112469	Strand	+
Start	1	End	320
Name	OJ990324_03.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	320
GI	6907089	Score	347
Exons	1..320		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	53406	Seq. ID	OJ990324_03.0419.C18
Gene No.	112470	Strand	-
Start	1	End	703
Name	OJ990324_03.0419.C18.o2.np	Method	AAT/NAP
Start	1	End	703
GI	7228457	Score	564
Exons	1..20, 328..703		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	53406	Seq. ID	OJ990324_03.0419.C18
Gene No.	112470	Strand	-
Start	1	End	703
Name	OJ990324_03.0419.C18.o1.gs	Method	GENSCAN
Start	91	End	644
GI	none	Score	.83
Exons	91..216, 337..546, 575..644		

Seq. No.	53406	Seq. ID	OJ990324_03.0419.C18
Gene No.	112470	Strand	-
Start	1	End	703
Name	OJ990324_03.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	312	End	695
GI	none	Score	201
Exons	312..695, 341..694		

Seq. No.	53406	Seq. ID	OJ990324_03.0419.C18
Gene No.	112470	Strand	-
Start	1	End	703
Name	OJ990324_03.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	470	End	703
GI	none	Score	164
Exons	470..517, 509..703, 522..701		

Seq. No.	53407	Seq. ID	OJ990324_03.0419.C19
Gene No.	112471	Strand	-
Start	1	End	1539
Name	OJ990324_03.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	1539
GI	7228457	Score	1357
Exons	1..79, 355..476, 599..1539		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	53407	Seq. ID	OJ990324_03.0419.C19
Gene No.	112471	Strand	-
Start	1	End	1539
Name	OJ990324_03.0419.C19.o1.gs	Method	GENSCAN
Start	71	End	1370
GI	none	Score	.5
Exons	71..440, 658..799, 833..1013, 1060..1370		

Seq. No.	53407	Seq. ID	OJ990324_03.0419.C19
Gene No.	112471	Strand	-
Start	1	End	1539
Name	OJ990324_03.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	453	End	799
GI	none	Score	77
Exons	453..635, 632..799, 633..761		

Seq. No.	53407	Seq. ID	OJ990324_03.0419.C19
Gene No.	112471	Strand	-
Start	1	End	1539
Name	OJ990324_03.0419.C19.o2.tw	Method	TBLASTX:Wheat
Start	453	End	853
GI	none	Score	101
Exons	453..641, 487..615, 623..853, 624..848		

Seq. No.	53407	Seq. ID	OJ990324_03.0419.C19
Gene No.	112471	Strand	-
Start	1	End	1539
Name	OJ990324_03.0419.C19.o2.tm	Method	TBLASTX:Maize
Start	528	End	911
GI	none	Score	159
Exons	528..638, 626..910, 627..911		

Seq. No.	53407	Seq. ID	OJ990324_03.0419.C19
Gene No.	112471	Strand	-
Start	1	End	1539
Name	OJ990324_03.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	938	End	1295
GI	none	Score	131

Exons	938..982, 990..1295, 1036..1209		
Seq. No.	53407	Seq. ID	OJ990324_03.0419.C19
Gene No.	112471	Strand	-
Start	1	End	1539
Name	OJ990324_03.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	983	End	1426
GI	none	Score	211
Exons	983..1210, 984..1424, 990..1424, 1003..1425, 1289..1426		
Seq. No.	53407	Seq. ID	OJ990324_03.0419.C19
Gene No.	112471	Strand	-
Start	1	End	1539
Name	OJ990324_03.0419.C19.o2.ts	Method	TBLASTX:Soybean
Start	1020	End	1385
GI	none	Score	116
Exons	1020..1154, 1161..1385		
Seq. No.	53408	Seq. ID	OJ990324_03.0419.C20
Gene No.	112472	Strand	+
Start	320	End	563
Name	OJ990324_03.0419.C20.o1.gs	Method	GENSCAN
Start	320	End	563
GI	none	Score	.74
Exons	320..380, 413..563		
Seq. No.	53408	Seq. ID	OJ990324_03.0419.C20
Gene No.	112473	Strand	-
Start	1	End	406
Name	OJ990324_03.0419.C20.o1.np	Method	AAT/NAP
Start	1	End	406
GI	6721562	Score	255
Exons	1..406		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi|6815087|dbj|BAA90373.1| (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		
Seq. No.	53409	Seq. ID	OJ990324_03.0419.C22
Gene No.	112474	Strand	-
Start	118	End	242
Name	OJ990324_03.0419.C22.o1.gs	Method	GENSCAN
Start	118	End	242
GI	none	Score	.62
Exons	118..158, 197..242		
Seq. No.	53410	Seq. ID	OJ990324_03.0419.C24
Gene No.	112475	Strand	-
Start	1	End	1778
Name	OJ990324_03.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	1778
GI	5091503	Score	140
Exons	1..202, 1313..1405, 1673..1778		
GI Descrip.	(AB023482) EST AU055776(S20048) corresponds to a region of the predicted gene.; Similar to Arabidopsis thaliana AP2 domain containing protein RAP2.10 mRNA, partial cds.(AF003103) [Oryza		

sativa]

Seq. No.	53411	Seq. ID	OJ990324_03.0419.C29
Gene No.	112476	Strand	-
Start	44	End	1053
Name	OJ990324_03.0419.C29.o1.gs	Method	GENSCAN
Start	44	End	1053
GI	none	Score	.89
Exons	44..190, 572..648, 719..1053		

Seq. No.	53412	Seq. ID	OJ990324_03.0419.C30
Gene No.	112477	Strand	+
Start	460	End	904
Name	OJ990324_03.0419.C30.o1.gs	Method	GENSCAN
Start	460	End	904
GI	none	Score	.79
Exons	460..594, 711..904		

Seq. No.	53413	Seq. ID	OJ990324_03.0419.C33
Gene No.	112478	Strand	-
Start	1	End	741
Name	OJ990324_03.0419.C33.o1.np	Method	AAT/NAP
Start	1	End	741
GI	6692096	Score	379
Exons	1..741		
GI Descrip.	(AC007764) F22C12.7 [Arabidopsis thaliana]		

Seq. No.	53413	Seq. ID	OJ990324_03.0419.C33
Gene No.	112478	Strand	-
Start	1	End	741
Name	OJ990324_03.0419.C33.o1.gs	Method	GENSCAN
Start	66	End	668
GI	none	Score	.95
Exons	66..668		

Seq. No.	53414	Seq. ID	OJ990324_03.0419.C36
Gene No.	112479	Strand	+
Start	98	End	116
Name	OJ990324_03.0419.C36.o1.gs	Method	GENSCAN
Start	98	End	116
GI	none	Score	.9
Exons	98..116		

Seq. No.	53415	Seq. ID	OJ990324_03.0419.C37
Gene No.	112480	Strand	-
Start	87	End	1664
Name	OJ990324_03.0419.C37.o1.gs	Method	GENSCAN
Start	87	End	1664
GI	none	Score	.76
Exons	87..194, 269..422, 607..856, 1006..1273, 1358..1414, 1506..1664		

Seq. No.	53416	Seq. ID	OJ990324_03.0419.C38
Gene No.	112481	Strand	+
Start	929	End	1001
Name	OJ990324_03.0419.C38.o1.gp	Method	AAT/GAP
Start	929	End	1001
GI	LIB3477-003-P1-K1-E9	Score	75

Exons	929..1001		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	53416	Seq. ID	OJ990324_03.0419.C38
Gene No.	112482	Strand	-
Start	31	End	1165
Name	OJ990324_03.0419.C38.o1.gs	Method	GENSCAN
Start	31	End	1165
GI	none	Score	.85
Exons	31..201, 392..446, 1110..1165		

Seq. No.	53417	Seq. ID	OJ990324_03.0419.C41
Gene No.	112483	Strand	+
Start	1	End	1673
Name	OJ990324_03.0419.C41.o1.np	Method	AAT/NAP
Start	1	End	605
GI	4588002	Score	390
Exons	1..321, 407..605		
GI Descrip.	(AF085279) hypothetical ankyrin-like protein [Arabidopsis thaliana]		

Seq. No.	53417	Seq. ID	OJ990324_03.0419.C41
Gene No.	112483	Strand	+
Start	1	End	1673
Name	OJ990324_03.0419.C41.o1.ts	Method	TBLASTX:Soybean
Start	125	End	533
GI	none	Score	248
Exons	125..322, 128..322, 130..324, 405..533		

Seq. No.	53417	Seq. ID	OJ990324_03.0419.C41
Gene No.	112483	Strand	+
Start	1	End	1673
Name	OJ990324_03.0419.C41.o1.tc	Method	TBLASTX:Cress
Start	126	End	530
GI	none	Score	74
Exons	126..302, 127..279, 128..322, 234..305, 405..530, 405..494		

Seq. No.	53417	Seq. ID	OJ990324_03.0419.C41
Gene No.	112483	Strand	+
Start	1	End	1673
Name	OJ990324_03.0419.C41.o1.gs	Method	GENSCAN
Start	127	End	1673
GI	none	Score	.58
Exons	127..321, 407..592, 1248..1327, 1578..1673		

Seq. No.	53417	Seq. ID	OJ990324_03.0419.C41
Gene No.	112483	Strand	+
Start	1	End	1673
Name	OJ990324_03.0419.C41.o1.tw	Method	TBLASTX:Wheat
Start	127	End	458
GI	none	Score	55
Exons	127..177, 128..178, 185..304, 194..322, 404..457, 405..458		

Seq. No.	53417	Seq. ID	OJ990324_03.0419.C41
Gene No.	112483	Strand	+

Start	1	End	1673
Name	OJ990324_03.0419.C41.o1.tm	Method	TBLASTX:Maize
Start	128	End	675
GI	none	Score	320
Exons	128..322, 128..322, 129..326, 130..333, 404..613, 405..602, 406..615, 406..621, 407..667, 622..666, 626..667, 637..675		

Seq. No.	53418	Seq. ID	OJ990324_03.0419.C42
Gene No.	112484	Strand	-
Start	159	End	358
Name	OJ990324_03.0419.C42.o1.gp	Method	AAT/GAP
Start	159	End	358
GI	LIB3477-003-P1-K1-E9	Score	94
Exons	159..181, 285..358		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	53419	Seq. ID	OJ990324_03.0419.C44
Gene No.	112485	Strand	-
Start	73	End	1144
Name	OJ990324_03.0419.C44.o1.gs	Method	GENSCAN
Start	73	End	835
GI	none	Score	.77
Exons	73..82, 301..369, 573..835		

Seq. No.	53419	Seq. ID	OJ990324_03.0419.C44
Gene No.	112485	Strand	-
Start	73	End	1144
Name	OJ990324_03.0419.C44.o1.tm	Method	TBLASTX:Maize
Start	300	End	820
GI	none	Score	80
Exons	300..365, 300..371, 557..820, 564..794, 571..816		

Seq. No.	53419	Seq. ID	OJ990324_03.0419.C44
Gene No.	112485	Strand	-
Start	73	End	1144
Name	OJ990324_03.0419.C44.o1.np	Method	AAT/NAP
Start	301	End	1144
GI	3763928	Score	120
Exons	301..369, 573..810, 1068..1144		
GI Descrip.	(AC004450) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53419	Seq. ID	OJ990324_03.0419.C44
Gene No.	112485	Strand	-
Start	73	End	1144
Name	OJ990324_03.0419.C44.o1.ts	Method	TBLASTX:Soybean
Start	333	End	793
GI	none	Score	85
Exons	333..371, 557..793, 588..674, 705..788		

Seq. No.	53419	Seq. ID	OJ990324_03.0419.C44
Gene No.	112485	Strand	-
Start	73	End	1144
Name	OJ990324_03.0419.C44.o1.gp	Method	AAT/GAP
Start	729	End	1144
GI	none	Score	343

Exons	729..835, 928..1001, 1080..1144		
Seq. No.	53420	Seq. ID	OJ990324_03.0419.C45
Gene No.	112486	Strand	+
Start	137	End	772
Name	OJ990324_03.0419.C45.o1.gs	Method	GENSCAN
Start	137	End	772
GI	none	Score	.75
Exons	137..237, 610..772		
Seq. No.	53421	Seq. ID	OJ990324_03.0419.C47
Gene No.	112487	Strand	+
Start	204	End	290
Name	OJ990324_03.0419.C47.o1.gs	Method	GENSCAN
Start	204	End	290
GI	none	Score	.46
Exons	204..290		
Seq. No.	53422	Seq. ID	OJ990324_03.0419.C48
Gene No.	112488	Strand	-
Start	813	End	887
Name	OJ990324_03.0419.C48.o1.gs	Method	GENSCAN
Start	813	End	887
GI	none	Score	.78
Exons	813..887		
Seq. No.	53423	Seq. ID	OJ990324_03.0419.C53
Gene No.	112489	Strand	+
Start	1	End	1510
Name	OJ990324_03.0419.C53.o1.np	Method	AAT/NAP
Start	1	End	593
GI	7228457	Score	688
Exons	1..593		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	53423	Seq. ID	OJ990324_03.0419.C53
Gene No.	112489	Strand	+
Start	1	End	1510
Name	OJ990324_03.0419.C53.o1.gs	Method	GENSCAN
Start	90	End	1510
GI	none	Score	.54
Exons	90..182, 375..431, 519..584, 705..786, 919..1510		
Seq. No.	53423	Seq. ID	OJ990324_03.0419.C53
Gene No.	112490	Strand	-
Start	1	End	1453
Name	OJ990324_03.0419.C53.o2.np	Method	AAT/NAP
Start	1	End	1453
GI	6907089	Score	769
Exons	1..23, 597..1453		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	53423	Seq. ID	OJ990324_03.0419.C53
Gene No.	112490	Strand	-
Start	1	End	1453

Name	OJ990324_03.0419.C53.o1.tm	Method	TBLASTX:Maize
Start	89	End	400
GI	none	Score	335
Exons	89..400, 208..399		

Seq. No.	53423	Seq. ID	OJ990324_03.0419.C53
Gene No.	112490	Strand	-
Start	1	End	1453
Name	OJ990324_03.0419.C53.o1.tw	Method	TBLASTX:Wheat
Start	92	End	471
GI	none	Score	285
Exons	92..406, 134..397, 208..405, 424..471		

Seq. No.	53424	Seq. ID	OJ990324_03.0419.C54
Gene No.	112491	Strand	-
Start	14	End	262
Name	OJ990324_03.0419.C54.o1.np	Method	AAT/NAP
Start	14	End	262
GI	6539585	Score	85
Exons	14..262		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	53424	Seq. ID	OJ990324_03.0419.C54
Gene No.	112492	Strand	-
Start	335	End	722
Name	OJ990324_03.0419.C54.o1.gs	Method	GENSCAN
Start	335	End	722
GI	none	Score	.78
Exons	335..501, 560..722		

Seq. No.	53425	Seq. ID	OJ990324_03.0419.C56
Gene No.	112493	Strand	+
Start	1477	End	1563
Name	OJ990324_03.0419.C56.o1.gp	Method	AAT/GAP
Start	1477	End	1563
GI	LIB3477-003-P1-K1-E9	Score	132
Exons	1477..1563		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	53425	Seq. ID	OJ990324_03.0419.C56
Gene No.	112494	Strand	+
Start	1566	End	1655
Name	OJ990324_03.0419.C56.o2.gp	Method	AAT/GAP
Start	1566	End	1655
GI	LIB3432-059-P1-K1-D8	Score	153
Exons	1566..1655		
GI Descrip.	'5734616/dbj|AP000391.1|AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	53425	Seq. ID	OJ990324_03.0419.C56
Gene No.	112495	Strand	-
Start	1	End	1388
Name	OJ990324_03.0419.C56.o1.np	Method	AAT/NAP
Start	1	End	1382
GI	6751686	Score	139

Exons	1..45, 1233..1382		
GI Descrip.	(AC018908) putative iron-regulated transporter [Arabidopsis thaliana]		

Seq. No.	53425	Seq. ID	OJ990324_03.0419.C56
Gene No.	112495	Strand	-
Start	1	End	1388
Name	OJ990324_03.0419.C56.o1.gs	Method	GENSCAN
Start	1095	End	1388
GI	none	Score	.62
Exons	1095..1388		

Seq. No.	53426	Seq. ID	OJ990324_03.0419.C59
Gene No.	112496	Strand	-
Start	1	End	442
Name	OJ990324_03.0419.C59.o1.np	Method	AAT/NAP
Start	1	End	413
GI	6692096	Score	100
Exons	1..77, 163..413		
GI Descrip.	(AC007764) F22C12.7 [Arabidopsis thaliana]		

Seq. No.	53426	Seq. ID	OJ990324_03.0419.C59
Gene No.	112496	Strand	-
Start	1	End	442
Name	OJ990324_03.0419.C59.o1.gs	Method	GENSCAN
Start	202	End	442
GI	none	Score	.62
Exons	202..442		

Seq. No.	53427	Seq. ID	OJ990324_03.0419.C60
Gene No.	112497	Strand	-
Start	164	End	751
Name	OJ990324_03.0419.C60.o1.gs	Method	GENSCAN
Start	164	End	706
GI	none	Score	.99
Exons	164..706		

Seq. No.	53427	Seq. ID	OJ990324_03.0419.C60
Gene No.	112497	Strand	-
Start	164	End	751
Name	OJ990324_03.0419.C60.o1.np	Method	AAT/NAP
Start	482	End	751
GI	6942018	Score	122
Exons	482..751		
GI Descrip.	(AF216581) AP2/EREBP-like transcription factor LEAFY PETIOLE [Arabidopsis thaliana]		

Seq. No.	53428	Seq. ID	OJ990324_03.0419.C61
Gene No.	112498	Strand	+
Start	160	End	238
Name	OJ990324_03.0419.C61.o1.gs	Method	GENSCAN
Start	160	End	238
GI	none	Score	.74
Exons	160..238		

Seq. No.	53429	Seq. ID	OJ990324_03.0419.C63
Gene No.	112499	Strand	+

Start	1	End	712
Name	OJ990324_03.0419.C63.o1.np	Method	AAT/NAP
Start	1	End	712
GI	113595	Score	119
Exons	1..83, 404..504, 579..712		
GI Descrip.	ALDOSE REDUCTASE (AR) (ALDEHYDE REDUCTASE) gi|100562|pir||S15024 aldose reductase-related protein - barley gi|18891|emb|CAA40747.1| (X57526) aldose reductase-related protein [Hordeum vulgare]		

Seq. No.	53429	Seq. ID	OJ990324_03.0419.C63
Gene No.	112499	Strand	+
Start	1	End	712
Name	OJ990324_03.0419.C63.o1.gs	Method	GENSCAN
Start	11	End	652
GI	none	Score	.64
Exons	11..70, 454..504, 579..652		

Seq. No.	53429	Seq. ID	OJ990324_03.0419.C63
Gene No.	112499	Strand	+
Start	1	End	712
Name	OJ990324_03.0419.C63.o1.gp	Method	AAT/GAP
Start	447	End	654
GI	73236_1.R1084	Score	191
Exons	447..504, 579..654		
GI Descrip.	'113595/sp|P23901|ALDR_HORVU 1.0e-46 ALDOSE REDUCTASE (AR) (ALDEHYDE REDUCTASE) >gi_100562_pir__S15024 aldose reductase-related protein - barley >gi_18891_emb_CAA40747_ (X57526) aldose reductase-related protein [Hordeum vulgare]'		

Seq. No.	53430	Seq. ID	OJ990324_03.0419.C70
Gene No.	112500	Strand	+
Start	2299	End	2851
Name	OJ990324_03.0419.C70.o2.gp	Method	AAT/GAP
Start	2299	End	2851
GI	2798337	Score	917
Exons	2299..2851		
GI Descrip.	1931645 1.0e-10 (U95973) Fe(II) transporter isolog [Arabidopsis thaliana]		

Seq. No.	53430	Seq. ID	OJ990324_03.0419.C70
Gene No.	112501	Strand	-
Start	1220	End	3349
Name	OJ990324_03.0419.C70.o1.gp	Method	AAT/GAP
Start	714	End	1194
GI	3763057	Score	806
Exons	714..1194		

Seq. No.	53430	Seq. ID	OJ990324_03.0419.C70
Gene No.	112501	Strand	-
Start	1220	End	3349
Name	OJ990324_03.0419.C70.o1.tm	Method	TBLASTX:Maize
Start	1212	End	2494
GI	none	Score	254
Exons	1212..1526, 1220..1531, 2441..2494		

Seq. No.	53430	Seq. ID	OJ990324_03.0419.C70

Gene No.	112501	Strand	-
Start	1220	End	3349
Name	OJ990324_03.0419.C70.o1.gs	Method	GENSCAN
Start	1220	End	3328
GI	none	Score	.92
Exons	1220..1525, 2441..2590, 2738..3328		

Seq. No.	53430	Seq. ID	OJ990324_03.0419.C70
Gene No.	112501	Strand	-
Start	1220	End	3349
Name	OJ990324_03.0419.C70.o1.ts	Method	TBLASTX:Soybean
Start	1220	End	2566
GI	none	Score	158
Exons	1220..1528, 1224..1526, 2390..2566, 2475..2558		

Seq. No.	53430	Seq. ID	OJ990324_03.0419.C70
Gene No.	112501	Strand	-
Start	1220	End	3349
Name	OJ990324_03.0419.C70.o1.tc	Method	TBLASTX:Cress
Start	1220	End	3227
GI	none	Score	98
Exons	1220..1402, 1220..1462, 1433..1525, 1437..1508, 2447..2566, 2732..2776, 2804..2863, 2897..3217, 2907..3227		

Seq. No.	53430	Seq. ID	OJ990324_03.0419.C70
Gene No.	112501	Strand	-
Start	1220	End	3349
Name	OJ990324_03.0419.C70.o1.np	Method	AAT/NAP
Start	1223	End	3349
GI	6692132	Score	674
Exons	1223..1525, 2441..2590, 2719..3349		
GI Descrip.	(AC007654) T19E23.6 [Arabidopsis thaliana]		

Seq. No.	53430	Seq. ID	OJ990324_03.0419.C70
Gene No.	112501	Strand	-
Start	1220	End	3349
Name	OJ990324_03.0419.C70.o2.tm	Method	TBLASTX:Maize
Start	2897	End	3226
GI	none	Score	216
Exons	2897..3226, 2910..3215		

Seq. No.	53430	Seq. ID	OJ990324_03.0419.C70
Gene No.	112501	Strand	-
Start	1220	End	3349
Name	OJ990324_03.0419.C70.o2.ts	Method	TBLASTX:Soybean
Start	2897	End	3226
GI	none	Score	175
Exons	2897..3226, 2910..3164		

Seq. No.	53431	Seq. ID	OJ990324_03.0419.C72
Gene No.	112502	Strand	+
Start	1	End	1035
Name	OJ990324_03.0419.C72.o2.np	Method	AAT/NAP
Start	1	End	1035
GI	4680183	Score	108
Exons	1..201, 946..1035		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	53431	Seq. ID	OJ990324_03.0419.C72
Gene No.	112502	Strand	+
Start	1	End	1035
Name	OJ990324_03.0419.C72.o1.np	Method	AAT/NAP
Start	77	End	600
GI	6539585	Score	96
Exons	77..255, 536..600		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	53431	Seq. ID	OJ990324_03.0419.C72
Gene No.	112502	Strand	+
Start	1	End	1035
Name	OJ990324_03.0419.C72.o1.gs	Method	GENSCAN
Start	539	End	991
GI	none	Score	.69
Exons	539..608, 816..991		

Seq. No.	53432	Seq. ID	OJ990324_03.0419.C73
Gene No.	112503	Strand	+
Start	317	End	919
Name	OJ990324_03.0419.C73.o1.gs	Method	GENSCAN
Start	317	End	919
GI	none	Score	.46
Exons	317..919		

Seq. No.	53432	Seq. ID	OJ990324_03.0419.C73
Gene No.	112504	Strand	-
Start	253	End	1895
Name	OJ990324_03.0419.C73.o1.np	Method	AAT/NAP
Start	253	End	1895
GI	6523547	Score	275
Exons	253..651, 854..1417, 1779..1895		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	53433	Seq. ID	OJ990324_03.0419.C75
Gene No.	112505	Strand	-
Start	1	End	3423
Name	OJ990324_03.0419.C75.o1.np	Method	AAT/NAP
Start	1	End	3423
GI	3980411	Score	121
Exons	1..228, 2422..2738, 2979..3256, 3356..3423		
GI Descrip.	(AC004561) putative proline-rich protein [Arabidopsis thaliana]		

Seq. No.	53433	Seq. ID	OJ990324_03.0419.C75
Gene No.	112505	Strand	-
Start	1	End	3423
Name	OJ990324_03.0419.C75.o1.gp	Method	AAT/GAP
Start	128	End	2602
GI	35197_1.R1084	Score	659
Exons	128..228, 1006..1064, 1892..1945, 2438..2602		
GI Descrip.	'1931645 1.0e-10 (U95973) Fe(II) transporter isolog [Arabidopsis thaliana]'		

Seq. No.	53433	Seq. ID	OJ990324_03.0419.C75
Gene No.	112505	Strand	-

Start	1	End	3423
Name	OJ990324_03.0419.C75.o1.gs	Method	GENSCAN
Start	713	End	3173
GI	none	Score	.8
Exons	713..748, 1006..1036, 2438..2704, 2759..2829, 2976..3173		

Seq. No.	53434	Seq. ID	OJ990324_03.0419.C81
Gene No.	112506	Strand	+
Start	1	End	264
Name	OJ990324_03.0419.C81.o1.np	Method	AAT/NAP
Start	1	End	264
GI	6069646	Score	340
Exons	1..264		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	53435	Seq. ID	OJ990324_03.0419.C82
Gene No.	112507	Strand	+
Start	418	End	997
Name	OJ990324_03.0419.C82.o1.gs	Method	GENSCAN
Start	418	End	997
GI	none	Score	.85
Exons	418..504, 919..997		

Seq. No.	53436	Seq. ID	OJ990324_03.0419.C83
Gene No.	112508	Strand	+
Start	1	End	1072
Name	OJ990324_03.0419.C83.o1.np	Method	AAT/NAP
Start	1	End	1072
GI	4586056	Score	577
Exons	1..560, 1001..1072		
GI Descrip.	(AC007020) unknown protein [Arabidopsis thaliana]		

Seq. No.	53436	Seq. ID	OJ990324_03.0419.C83
Gene No.	112508	Strand	+
Start	1	End	1072
Name	OJ990324_03.0419.C83.o1.ts	Method	TBLASTX:Soybean
Start	57	End	560
GI	none	Score	68
Exons	57..158, 62..163, 164..253, 169..534, 173..379, 183..560, 288..533, 307..540, 440..550		

Seq. No.	53436	Seq. ID	OJ990324_03.0419.C83
Gene No.	112508	Strand	+
Start	1	End	1072
Name	OJ990324_03.0419.C83.o1.tc	Method	TBLASTX:Cress
Start	86	End	482
GI	none	Score	399
Exons	86..481, 90..482		

Seq. No.	53436	Seq. ID	OJ990324_03.0419.C83
Gene No.	112508	Strand	+
Start	1	End	1072
Name	OJ990324_03.0419.C83.o1.tm	Method	TBLASTX:Maize

Start	101	End	533
GI	none	Score	175
Exons	101..379, 106..423, 107..262, 437..532	144..416, 416..532, 417..533,	

Seq. No.	53436	Seq. ID	OJ990324_03.0419.C83
Gene No.	112508	Strand	+
Start	1	End	1072
Name	OJ990324_03.0419.C83.o1.gs	Method	GENSCAN
Start	142	End	680
GI	none	Score	.4
Exons	142..680		

Seq. No.	53437	Seq. ID	OJ990324_03.0419.C84
Gene No.	112509	Strand	+
Start	1	End	787
Name	OJ990324_03.0419.C84.o1.np	Method	AAT/NAP
Start	1	End	769
GI	4586056	Score	143
Exons	1..151, 566..613, 674..769		
GI Descrip.	(AC007020) unknown protein [Arabidopsis thaliana]		

Seq. No.	53437	Seq. ID	OJ990324_03.0419.C84
Gene No.	112509	Strand	+
Start	1	End	787
Name	OJ990324_03.0419.C84.o1.tm	Method	TBLASTX:Maize
Start	4	End	787
GI	none	Score	115
Exons	4..150, 8..151, 26..151, 31..165, 553..609, 563..607, 704..787, 705..779, 706..783		

Seq. No.	53437	Seq. ID	OJ990324_03.0419.C84
Gene No.	112509	Strand	+
Start	1	End	787
Name	OJ990324_03.0419.C84.o1.gs	Method	GENSCAN
Start	566	End	781
GI	none	Score	.94
Exons	566..781		

Seq. No.	53438	Seq. ID	OJ990324_03.0419.C85
Gene No.	112510	Strand	+
Start	1	End	1510
Name	OJ990324_03.0419.C85.o1.np	Method	AAT/NAP
Start	1	End	1253
GI	2130022	Score	580
Exons	1..87, 226..285, 386..562, 1167..1253		
GI Descrip.	aldose reductase homolog - wild oat gi|1155213 (U21747) aldose reductase-related protein [Avena fatua] gi|1587923|prf||2207360A aldose reductase [Avena fatua]		

Seq. No.	53438	Seq. ID	OJ990324_03.0419.C85
Gene No.	112510	Strand	+
Start	1	End	1510
Name	OJ990324_03.0419.C85.o1.ts	Method	TBLASTX:Soybean
Start	13	End	538
GI	none	Score	114
Exons	13..87, 13..87, 226..252, 383..538, 384..497, 385..534, 386..538		

Seq. No.	53438	Seq. ID	OJ990324_03.0419.C85
Gene No.	112510	Strand	+
Start	1	End	1510
Name	OJ990324_03.0419.C85.o1.gs	Method	GENSCAN
Start	22	End	1256
GI	none	Score	.86
Exons	22..87, 226..285, 386..562, 955..1029, 1167..1256		

Seq. No.	53438	Seq. ID	OJ990324_03.0419.C85
Gene No.	112510	Strand	+
Start	1	End	1510
Name	OJ990324_03.0419.C85.o1.tm	Method	TBLASTX:Maize
Start	219	End	567
GI	none	Score	109
Exons	219..287, 223..288, 382..567, 383..565, 384..566, 388..567		

Seq. No.	53438	Seq. ID	OJ990324_03.0419.C85
Gene No.	112510	Strand	+
Start	1	End	1510
Name	OJ990324_03.0419.C85.o1.tc	Method	TBLASTX:Cress
Start	383	End	1261
GI	none	Score	227
Exons	383..571, 385..558, 386..562, 1164..1256, 1166..1261		

Seq. No.	53438	Seq. ID	OJ990324_03.0419.C85
Gene No.	112510	Strand	+
Start	1	End	1510
Name	OJ990324_03.0419.C85.o1.gp	Method	AAT/GAP
Start	453	End	1510
GI	LIB3479-009-Q6-K1-E3	Score	888
Exons	453..562, 1167..1510		
GI Descrip.	'543632/pir||JQ2253 8.0e-31 aldehyde reductase (EC 1.1.1.21), NADPH-dependent - bromegrass >gi_167113 (L12042) aldose reductase-related protein [Bromus inermis]'		

Seq. No.	53439	Seq. ID	OJ990324_03.0419.C87
Gene No.	112511	Strand	+
Start	3329	End	3995
Name	OJ990324_03.0419.C87.o1.gs	Method	GENSCAN
Start	3329	End	3995
GI	none	Score	.73
Exons	3329..3493, 3502..3995		

Seq. No.	53439	Seq. ID	OJ990324_03.0419.C87
Gene No.	112512	Strand	-
Start	1210	End	1450
Name	OJ990324_03.0419.C87.o1.gp	Method	AAT/GAP
Start	1210	End	1450
GI	8022_1.R1084	Score	326
Exons	1210..1450		
GI Descrip.	'5091496/dbj|AB023482.2|AB023482 3.0e-37 Oryza sativa genomic DNA, chromosome 6, clone P0680A03, complete sequence'		

Seq. No.	53439	Seq. ID	OJ990324_03.0419.C87
Gene No.	112513	Strand	-
Start	3306	End	6243

Name	OJ990324_03.0419.C87.o1.np	Method	AAT/NAP
Start	3306	End	6243
GI	6069646	Score	836
Exons	3306..3977, 6171..6243		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	53439	Seq. ID	OJ990324_03.0419.C87
Gene No.	112513	Strand	-
Start	3306	End	6243
Name	OJ990324_03.0419.C87.o1.tm	Method	TBLASTX:Maize
Start	3321	End	3809
GI	none	Score	72
Exons	3321..3530, 3565..3759, 3588..3809		

Seq. No.	53439	Seq. ID	OJ990324_03.0419.C87
Gene No.	112513	Strand	-
Start	3306	End	6243
Name	OJ990324_03.0419.C87.o1.tw	Method	TBLASTX:Wheat
Start	3432	End	3785
GI	none	Score	189
Exons	3432..3467, 3588..3785		

Seq. No.	53439	Seq. ID	OJ990324_03.0419.C87
Gene No.	112513	Strand	-
Start	3306	End	6243
Name	OJ990324_03.0419.C87.o2.gs	Method	GENSCAN
Start	4206	End	6037
GI	none	Score	.65
Exons	4206..4378, 5129..5223, 5897..6037		

Seq. No.	53440	Seq. ID	OJ990324_03.0419.C90
Gene No.	112514	Strand	+
Start	1	End	730
Name	OJ990324_03.0419.C90.o1.np	Method	AAT/NAP
Start	1	End	730
GI	7523707	Score	113
Exons	1..169, 242..430, 698..730		
GI Descrip.	(AC011001) Putative membrane protein [Arabidopsis thaliana]		

Seq. No.	53440	Seq. ID	OJ990324_03.0419.C90
Gene No.	112514	Strand	+
Start	1	End	730
Name	OJ990324_03.0419.C90.o1.tw	Method	TBLASTX:Wheat
Start	35	End	174
GI	none	Score	186
Exons	35..172, 42..173, 43..174, 44..172		

Seq. No.	53440	Seq. ID	OJ990324_03.0419.C90
Gene No.	112514	Strand	+
Start	1	End	730
Name	OJ990324_03.0419.C90.o1.gs	Method	GENSCAN
Start	45	End	460
GI	none	Score	.9

Exons	45..460		
Seq. No.	53441	Seq. ID	OJ990324_03.0419.C94
Gene No.	112515	Strand	-
Start	1	End	1707
Name	OJ990324_03.0419.C94.o1.np	Method	AAT/NAP
Start	1	End	1707
GI	7523707	Score	864
Exons	1..216, 687..877, 1171..1289, 1403..1493, 1561..1707		
GI Descrip.	(AC011001) Putative membrane protein [Arabidopsis thaliana]		
Seq. No.	53441	Seq. ID	OJ990324_03.0419.C94
Gene No.	112515	Strand	-
Start	1	End	1707
Name	OJ990324_03.0419.C94.o1.ts	Method	TBLASTX:Soybean
Start	3	End	200
GI	none	Score	138
Exons	3..200, 4..195		
Seq. No.	53441	Seq. ID	OJ990324_03.0419.C94
Gene No.	112515	Strand	-
Start	1	End	1707
Name	OJ990324_03.0419.C94.o1.tw	Method	TBLASTX:Wheat
Start	3	End	111
GI	none	Score	137
Exons	3..110, 3..110, 4..111		
Seq. No.	53441	Seq. ID	OJ990324_03.0419.C94
Gene No.	112515	Strand	-
Start	1	End	1707
Name	OJ990324_03.0419.C94.o1.gs	Method	GENSCAN
Start	87	End	1707
GI	none	Score	.81
Exons	87..216, 687..877, 1171..1289, 1403..1493, 1561..1707		
Seq. No.	53442	Seq. ID	OJ990324_03.0419.C95
Gene No.	112516	Strand	+
Start	144	End	4219
Name	OJ990324_03.0419.C95.o1.gs	Method	GENSCAN
Start	144	End	4038
GI	none	Score	.87
Exons	144..551, 1071..1148, 1742..1804, 1981..2043, 2605..2667, 2778..2837, 3163..3300, 3659..4038		
Seq. No.	53442	Seq. ID	OJ990324_03.0419.C95
Gene No.	112516	Strand	+
Start	144	End	4219
Name	OJ990324_03.0419.C95.o1.np	Method	AAT/NAP
Start	1939	End	4072
GI	3786014	Score	101
Exons	1939..1974, 3889..4072		
GI Descrip.	(AC005499) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	53442	Seq. ID	OJ990324_03.0419.C95
Gene No.	112516	Strand	+
Start	144	End	4219
Name	OJ990324_03.0419.C95.o1.tm	Method	TBLASTX:Maize

Start	3716	End	4219
GI	none	Score	94
Exons	3716..3853, 3772..3849, 3862..3912, 3869..4081, 3869..4078, 3982..4080, 4187..4219, 4187..4219		

Seq. No.	53443	Seq. ID	OJ990324_03.0419.C96
Gene No.	112517	Strand	+
Start	60	End	124
Name	OJ990324_03.0419.C96.o1.gs	Method	GENSCAN
Start	60	End	124
GI	none	Score	.83
Exons	60..124		

Seq. No.	53443	Seq. ID	OJ990324_03.0419.C96
Gene No.	112518	Strand	-
Start	300	End	1674
Name	OJ990324_03.0419.C96.o1.ts	Method	TBLASTX:Soybean
Start	283	End	1670
GI	none	Score	181
Exons	283..447, 286..735, 288..932, 450..932, 532..939, 1106..1483, 1107..1319, 1109..1441, 1306..1482, 1448..1552, 1492..1554, 1572..1670, 1575..1646		

Seq. No.	53443	Seq. ID	OJ990324_03.0419.C96
Gene No.	112518	Strand	-
Start	300	End	1674
Name	OJ990324_03.0419.C96.o1.tm	Method	TBLASTX:Maize
Start	300	End	1219
GI	none	Score	140
Exons	300..932, 304..447, 434..712, 447..932, 532..942, 1106..1219, 1108..1215, 1109..1216		

Seq. No.	53443	Seq. ID	OJ990324_03.0419.C96
Gene No.	112518	Strand	-
Start	300	End	1674
Name	OJ990324_03.0419.C96.o2.gs	Method	GENSCAN
Start	300	End	1572
GI	none	Score	.88
Exons	300..931, 1111..1572		

Seq. No.	53443	Seq. ID	OJ990324_03.0419.C96
Gene No.	112518	Strand	-
Start	300	End	1674
Name	OJ990324_03.0419.C96.o1.np	Method	AAT/NAP
Start	306	End	1674
GI	6714369	Score	1010
Exons	306..923, 1106..1674		
GI Descrip.	(AC012562) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	53443	Seq. ID	OJ990324_03.0419.C96
Gene No.	112518	Strand	-
Start	300	End	1674
Name	OJ990324_03.0419.C96.o3.tw	Method	TBLASTX:Wheat
Start	315	End	557
GI	none	Score	64
Exons	315..557, 372..554		

Seq. No.	53443	Seq. ID	OJ990324_03.0419.C96
Gene No.	112518	Strand	-
Start	300	End	1674
Name	OJ990324_03.0419.C96.o1.tc	Method	TBLASTX:Cress
Start	357	End	911
GI	none	Score	54
Exons	357..482, 376..447, 443..565, 535..903	462..698, 472..738, 489..911,	

Seq. No.	53443	Seq. ID	OJ990324_03.0419.C96
Gene No.	112518	Strand	-
Start	300	End	1674
Name	OJ990324_03.0419.C96.o1.tw	Method	TBLASTX:Wheat
Start	591	End	902
GI	none	Score	61
Exons	591..701, 595..699, 732..902		

Seq. No.	53443	Seq. ID	OJ990324_03.0419.C96
Gene No.	112518	Strand	-
Start	300	End	1674
Name	OJ990324_03.0419.C96.o2.tc	Method	TBLASTX:Cress
Start	1109	End	1426
GI	none	Score	40
Exons	1109..1213, 1110..1139, 1148..1213, 1226..1426, 1227..1370		

Seq. No.	53443	Seq. ID	OJ990324_03.0419.C96
Gene No.	112518	Strand	-
Start	300	End	1674
Name	OJ990324_03.0419.C96.o2.tm	Method	TBLASTX:Maize
Start	1220	End	1667
GI	none	Score	224
Exons	1220..1534, 1220..1540, 1306..1539, 1508..1660, 1524..1661, 1545..1667		

Seq. No.	53443	Seq. ID	OJ990324_03.0419.C96
Gene No.	112518	Strand	-
Start	300	End	1674
Name	OJ990324_03.0419.C96.o2.tw	Method	TBLASTX:Wheat
Start	1220	End	1393
GI	none	Score	190
Exons	1220..1393		

Seq. No.	53444	Seq. ID	OJ990324_03.0419.C98
Gene No.	112519	Strand	-
Start	439	End	1151
Name	OJ990324_03.0419.C98.o1.gs	Method	GENSCAN
Start	439	End	1151
GI	none	Score	.82
Exons	439..600, 1034..1151		

Seq. No.	53445	Seq. ID	OJ990324_03.0419.C99
Gene No.	112520	Strand	-
Start	1152	End	1337
Name	OJ990324_03.0419.C99.o1.gs	Method	GENSCAN
Start	1152	End	1337
GI	none	Score	.56
Exons	1152..1337		

Seq. No.	53446	Seq. ID	OJ990324_03.0419.C100
Gene No.	112521	Strand	+
Start	1	End	5157
Name	OJ990324_03.0419.C100.o1.np	Method	AAT/NAP
Start	1	End	2048
GI	4323298	Score	61
Exons	1..75, 302..498, 1997..2048		
GI Descrip.	(AF099096) pulvinus outward-rectifying channel for potassium SPOCK1 [Samanea saman]		

Seq. No.	53446	Seq. ID	OJ990324_03.0419.C100
Gene No.	112521	Strand	+
Start	1	End	5157
Name	OJ990324_03.0419.C100.o1.gs	Method	GENSCAN
Start	535	End	748
GI	none	Score	.5
Exons	535..748		

Seq. No.	53446	Seq. ID	OJ990324_03.0419.C100
Gene No.	112521	Strand	+
Start	1	End	5157
Name	OJ990324_03.0419.C100.o1.gp	Method	AAT/GAP
Start	1206	End	2563
GI	41121_1.R1084	Score	817
Exons	1206..1538, 1644..1692, 2485..2563		
GI Descrip.	'1351834/sp|P48255|ABCX_CYAPA 6.0e-17 PROBABLE ATP-DEPENDENT TRANSPORTER YCF16 >gi_1016162 (U30821) ABC transporter subunit [Cyanophora paradoxa]'		

Seq. No.	53446	Seq. ID	OJ990324_03.0419.C100
Gene No.	112521	Strand	+
Start	1	End	5157
Name	OJ990324_03.0419.C100.o2.gs	Method	GENSCAN
Start	1264	End	4505
GI	none	Score	.85
Exons	1264..1305, 2487..2708, 3077..3199, 3651..3827, 4419..4505		

Seq. No.	53446	Seq. ID	OJ990324_03.0419.C100
Gene No.	112521	Strand	+
Start	1	End	5157
Name	OJ990324_03.0419.C100.o2.np	Method	AAT/NAP
Start	1445	End	4499
GI	6119518	Score	714
Exons	1445..1538, 1644..1688, 2481..2708, 3077..3199, 3651..3827, 4419..4499		
GI Descrip.	(AC011560) putative ABC transporter ATPase [Arabidopsis thaliana]		

Seq. No.	53446	Seq. ID	OJ990324_03.0419.C100
Gene No.	112521	Strand	+
Start	1	End	5157
Name	OJ990324_03.0419.C100.o2.gp	Method	AAT/GAP
Start	3063	End	5157
GI	28437_1.R1084	Score	1893
Exons	3063..3199, 3421..3827, 4419..4523, 4740..5157		
GI Descrip.	'267152/sp|Q00830|ABCX_ODOSI 2.0e-15 PROBABLE ATP-DEPENDENT		

TRANSPORTER YCF16 >gi_11938_emb_CAA43151_ (X60752) ORF 756
[Odontella sinensis] >gi_11945_emb_CAA43158_ (X60752) ORF 252
[Odontella sinensis] >gi_1185205_emb_CAA91688_ (Z67753) ORF251
[Odontella sinensis]'

Seq. No.	53446	Seq. ID	OJ990324_03.0419.C100
Gene No.	112522	Strand	+
Start	7710	End	7955
Name	OJ990324_03.0419.C100.o3.gp	Method	AAT/GAP
Start	7710	End	7955
GI	427756	Score	466
Exons	7710..7955		

Seq. No.	53446	Seq. ID	OJ990324_03.0419.C100
Gene No.	112523	Strand	-
Start	7165	End	7839
Name	OJ990324_03.0419.C100.o1.tm	Method	TBLASTX:Maize
Start	1442	End	4520
GI	none	Score	109
Exons	1442..1537, 1449..1547, 1449..1547, 1641..1688, 1644..1688, 2481..2708, 2486..2704, 3074..3196, 3078..3194, 3080..3202, 3100..3204, 3650..3808, 3651..3839, 3681..3827, 3734..3832, 3781..3861, 4362..4520, 4417..4509		

Seq. No.	53446	Seq. ID	OJ990324_03.0419.C100
Gene No.	112523	Strand	-
Start	7165	End	7839
Name	OJ990324_03.0419.C100.o1.ts	Method	TBLASTX:Soybean
Start	2525	End	3202
GI	4294569	Score	207
Exons	2525..2701, 2526..2708, 3083..3202, 3094..3201		
GI Descrip.	267152/sp_Q00830_ABCX_ODOSI 5.0e-28 PROBABLE ATP-DEPENDENT TRANSPORTER YCF16 >gi_11938_emb_CAA43151_ (X60752) ORF 756 [Odontella sinensis] >gi_11945_emb_CAA43158_ (X60752) ORF 252 [Odontella sinensis] >gi_1185205_emb_CAA91688_ (Z67753) ORF251 [Odontella sinensis]		

Seq. No.	53446	Seq. ID	OJ990324_03.0419.C100
Gene No.	112523	Strand	-
Start	7165	End	7839
Name	OJ990324_03.0419.C100.o3.gs	Method	GENSCAN
Start	7165	End	7839
GI	none	Score	.51
Exons	7165..7839		

Seq. No.	53447	Seq. ID	OJ990324_03.0419.C101
Gene No.	112524	Strand	+
Start	1	End	901
Name	OJ990324_03.0419.C101.o1.gp	Method	AAT/GAP
Start	1	End	207
GI	uC-osroM202023a02b1	Score	388
Exons	1..207		
GI Descrip.	'4539330/emb|CAB38831.1| 1.0e-22 (AL035679) putative receptor-like protein kinase (fragment) [Arabidopsis thaliana]'		

Seq. No.	53447	Seq. ID	OJ990324_03.0419.C101
Gene No.	112524	Strand	+

Start	1	End	901
Name	OJ990324_03.0419.C101.o1.np	Method	AAT/NAP
Start	1	End	901
GI	3786012	Score	343
Exons	1..219, 695..901		
GI Descrip.	(AC005499) putative acid phosphatase [Arabidopsis thaliana]		

Seq. No.	53447	Seq. ID	OJ990324_03.0419.C101
Gene No.	112524	Strand	+
Start	1	End	901
Name	OJ990324_03.0419.C101.o1.gs	Method	GENSCAN
Start	50	End	901
GI	none	Score	.86
Exons	50..212, 420..432, 695..901		

Seq. No.	53448	Seq. ID	OJ990324_03.0419.C102
Gene No.	112525	Strand	+
Start	661	End	784
Name	OJ990324_03.0419.C102.o1.gs	Method	GENSCAN
Start	661	End	784
GI	none	Score	.85
Exons	661..784		

Seq. No.	53449	Seq. ID	OJ990324_03.0419.C103
Gene No.	112526	Strand	-
Start	1	End	1039
Name	OJ990324_03.0419.C103.o1.np	Method	AAT/NAP
Start	1	End	1039
GI	6907105	Score	291
Exons	1..21, 812..1039		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	53449	Seq. ID	OJ990324_03.0419.C103
Gene No.	112526	Strand	-
Start	1	End	1039
Name	OJ990324_03.0419.C103.o1.gs	Method	GENSCAN
Start	811	End	1039
GI	none	Score	.99
Exons	811..1039		

Seq. No.	53450	Seq. ID	OJ990324_03.0419.C104
Gene No.	112527	Strand	+
Start	1	End	1180
Name	OJ990324_03.0419.C104.o1.np	Method	AAT/NAP
Start	1	End	1139
GI	6572076	Score	1588
Exons	1..1139		
GI Descrip.	(AL133452) receptor-protein kinase-like protein [Arabidopsis thaliana]		

Seq. No.	53450	Seq. ID	OJ990324_03.0419.C104
Gene No.	112527	Strand	+
Start	1	End	1180
Name	OJ990324_03.0419.C104.o1.tm	Method	TBLASTX:Maize
Start	3	End	1180
GI	none	Score	1845
Exons	3..1145, 3..1172, 4..1176, 8..1180, 317..1177		

Seq. No.	53450	Seq. ID	OJ990324_03.0419.C104
Gene No.	112527	Strand	+
Start	1	End	1180
Name	OJ990324_03.0419.C104.o1.ts	Method	TBLASTX:Soybean
Start	3	End	1148
GI	none	Score	1511
Exons	3..938, 7..438, 311..937, 1043..1144, 1047..1148, 1053..1145		

Seq. No.	53450	Seq. ID	OJ990324_03.0419.C104
Gene No.	112527	Strand	+
Start	1	End	1180
Name	OJ990324_03.0419.C104.o1.tc	Method	TBLASTX:Cress
Start	57	End	613
GI	none	Score	837
Exons	57..602, 57..578, 311..613		

Seq. No.	53450	Seq. ID	OJ990324_03.0419.C104
Gene No.	112527	Strand	+
Start	1	End	1180
Name	OJ990324_03.0419.C104.o1.tw	Method	TBLASTX:Wheat
Start	75	End	517
GI	none	Score	719
Exons	75..515, 93..515, 317..517		

Seq. No.	53450	Seq. ID	OJ990324_03.0419.C104
Gene No.	112527	Strand	+
Start	1	End	1180
Name	OJ990324_03.0419.C104.o2.tw	Method	TBLASTX:Wheat
Start	540	End	965
GI	none	Score	155
Exons	540..725, 545..667, 756..965		

Seq. No.	53450	Seq. ID	OJ990324_03.0419.C104
Gene No.	112527	Strand	+
Start	1	End	1180
Name	OJ990324_03.0419.C104.o2.tc	Method	TBLASTX:Cress
Start	614	End	1142
GI	none	Score	501
Exons	614..949, 615..959, 1046..1138, 1053..1142		

Seq. No.	53450	Seq. ID	OJ990324_03.0419.C104
Gene No.	112527	Strand	+
Start	1	End	1180
Name	OJ990324_03.0419.C104.o1.gp	Method	AAT/GAP
Start	708	End	1093
GI	427857	Score	749
Exons	708..1093		
GI Descrip.	4539330/emb|CAB38831.1| 1.0e-22 (AL035679) putative receptor-like protein kinase (fragment) [Arabidopsis thaliana]		

Seq. No.	53451	Seq. ID	OJ990324_03.0419.C105
Gene No.	112528	Strand	+
Start	1	End	1343
Name	OJ990324_03.0419.C105.o1.np	Method	AAT/NAP
Start	1	End	1343
GI	6572076	Score	1328

Exons	1..1343		
GI Descrip.	(AL133452) receptor-protein kinase-like protein [Arabidopsis thaliana]		

Seq. No.	53451	Seq. ID	OJ990324_03.0419.C105
Gene No.	112528	Strand	+
Start	1	End	1343
Name	OJ990324_03.0419.C105.o3.ts	Method	TBLASTX:Soybean
Start	1	End	364
GI	none	Score	73
Exons	1..75, 2..88, 155..310, 157..246, 317..364		

Seq. No.	53451	Seq. ID	OJ990324_03.0419.C105
Gene No.	112528	Strand	+
Start	1	End	1343
Name	OJ990324_03.0419.C105.o1.gs	Method	GENSCAN
Start	98	End	1190
GI	none	Score	.57
Exons	98..1190		

Seq. No.	53451	Seq. ID	OJ990324_03.0419.C105
Gene No.	112528	Strand	+
Start	1	End	1343
Name	OJ990324_03.0419.C105.o2.tm	Method	TBLASTX:Maize
Start	143	End	469
GI	none	Score	322
Exons	143..469, 149..241, 157..426, 327..461		

Seq. No.	53451	Seq. ID	OJ990324_03.0419.C105
Gene No.	112528	Strand	+
Start	1	End	1343
Name	OJ990324_03.0419.C105.o1.tc	Method	TBLASTX:Cress
Start	278	End	772
GI	none	Score	372
Exons	278..607, 310..606, 595..753, 605..772		

Seq. No.	53451	Seq. ID	OJ990324_03.0419.C105
Gene No.	112528	Strand	+
Start	1	End	1343
Name	OJ990324_03.0419.C105.o2.ts	Method	TBLASTX:Soybean
Start	425	End	763
GI	none	Score	167
Exons	425..562, 442..555, 572..622, 595..753, 596..754, 626..763, 630..761		

Seq. No.	53451	Seq. ID	OJ990324_03.0419.C105
Gene No.	112528	Strand	+
Start	1	End	1343
Name	OJ990324_03.0419.C105.o3.tm	Method	TBLASTX:Maize
Start	470	End	762
GI	none	Score	112
Exons	470..574, 478..573, 541..756, 542..760, 571..762, 572..760		

Seq. No.	53451	Seq. ID	OJ990324_03.0419.C105
Gene No.	112528	Strand	+
Start	1	End	1343
Name	OJ990324_03.0419.C105.o1.tm	Method	TBLASTX:Maize

Start	799	End	1287
GI	none	Score	95
Exons	799..900, 836..889, 847..900, 866..940, 904..1086, 911..1285, 913..1287, 915..1283		

Seq. No.	53451	Seq. ID	OJ990324_03.0419.C105
Gene No.	112528	Strand	+
Start	1	End	1343
Name	OJ990324_03.0419.C105.o1.ts	Method	TBLASTX:Soybean
Start	866	End	1285
GI	none	Score	555
Exons	866..1285, 884..1279		

Seq. No.	53451	Seq. ID	OJ990324_03.0419.C105
Gene No.	112528	Strand	+
Start	1	End	1343
Name	OJ990324_03.0419.C105.o2.tc	Method	TBLASTX:Cress
Start	1055	End	1285
GI	none	Score	356
Exons	1055..1285, 1055..1279		

Seq. No.	53451	Seq. ID	OJ990324_03.0419.C105
Gene No.	112528	Strand	+
Start	1	End	1343
Name	OJ990324_03.0419.C105.o1.tw	Method	TBLASTX:Wheat
Start	1073	End	1287
GI	none	Score	323
Exons	1073..1285, 1091..1285, 1093..1287		

Seq. No.	53452	Seq. ID	OJ990324_03.0419.C108
Gene No.	112529	Strand	-
Start	354	End	1058
Name	OJ990324_03.0419.C108.o1.gs	Method	GENSCAN
Start	354	End	1058
GI	none	Score	.6
Exons	354..1058		

Seq. No.	53453	Seq. ID	OJ990324_03.0419.C111
Gene No.	112530	Strand	+
Start	213	End	1327
Name	OJ990324_03.0419.C111.o1.gs	Method	GENSCAN
Start	213	End	1327
GI	none	Score	.57
Exons	213..218, 1142..1327		

Seq. No.	53454	Seq. ID	OJ990324_03.0419.C117
Gene No.	112531	Strand	+
Start	1	End	1132
Name	OJ990324_03.0419.C117.o1.np	Method	AAT/NAP
Start	1	End	1132
GI	7228457	Score	1070
Exons	1..509, 576..1132		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	53454	Seq. ID	OJ990324_03.0419.C117

Gene No.	112531	Strand	+
Start	1	End	1132
Name	OJ990324_03.0419.C117.o1.tw	Method	TBLASTX:Wheat
Start	68	End	487
GI	none	Score	201
Exons	68..262, 106..279, 314..487, 346..486		

Seq. No.	53454	Seq. ID	OJ990324_03.0419.C117
Gene No.	112531	Strand	+
Start	1	End	1132
Name	OJ990324_03.0419.C117.o1.gs	Method	GENSCAN
Start	113	End	1088
GI	none	Score	.9
Exons	113..886, 896..1088		

Seq. No.	53454	Seq. ID	OJ990324_03.0419.C117
Gene No.	112531	Strand	+
Start	1	End	1132
Name	OJ990324_03.0419.C117.o1.ts	Method	TBLASTX:Soybean
Start	161	End	724
GI	5666795	Score	52
Exons	161..259, 353..487, 524..724		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	53454	Seq. ID	OJ990324_03.0419.C117
Gene No.	112531	Strand	+
Start	1	End	1132
Name	OJ990324_03.0419.C117.o2.tw	Method	TBLASTX:Wheat
Start	490	End	829
GI	none	Score	206
Exons	490..816, 521..829		

Seq. No.	53455	Seq. ID	OJ990324_03.0419.C118
Gene No.	112532	Strand	-
Start	576	End	1111
Name	OJ990324_03.0419.C118.o1.np	Method	AAT/NAP
Start	576	End	1111
GI	5777617	Score	85
Exons	576..678, 1023..1111		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	53456	Seq. ID	OJ990324_03.0419.C120
Gene No.	112533	Strand	-
Start	1	End	1800
Name	OJ990324_03.0419.C120.o1.np	Method	AAT/NAP
Start	1	End	1800
GI	6539581	Score	1852
Exons	1..1562, 1668..1800		
GI Descrip.	(AP000837) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F20D10; hypothetical protein (AL035538) [Oryza sativa]		

Seq. No.	53456	Seq. ID	OJ990324_03.0419.C120
Gene No.	112533	Strand	-
Start	1	End	1800
Name	OJ990324_03.0419.C120.o1.gs	Method	GENSCAN
Start	324	End	1541
GI	none	Score	.5

Exons	324..1541		
Seq. No.	53456	Seq. ID	OJ990324_03.0419.C120
Gene No.	112534	Strand	-
Start	2471	End	3890
Name	OJ990324_03.0419.C120.o2.tw	Method	TBLASTX:Wheat
Start	681	End	1112
GI	none	Score	66
Exons	681..1112, 682..876		
Seq. No.	53456	Seq. ID	OJ990324_03.0419.C120
Gene No.	112534	Strand	-
Start	2471	End	3890
Name	OJ990324_03.0419.C120.o1.ts	Method	TBLASTX:Soybean
Start	744	End	1287
GI	none	Score	145
Exons	744..1286, 951..1286, 1135..1287		
Seq. No.	53456	Seq. ID	OJ990324_03.0419.C120
Gene No.	112534	Strand	-
Start	2471	End	3890
Name	OJ990324_03.0419.C120.o1.tm	Method	TBLASTX:Maize
Start	963	End	1346
GI	none	Score	161
Exons	963..1346, 984..1343		
Seq. No.	53456	Seq. ID	OJ990324_03.0419.C120
Gene No.	112534	Strand	-
Start	2471	End	3890
Name	OJ990324_03.0419.C120.o1.tc	Method	TBLASTX:Cress
Start	1032	End	1352
GI	none	Score	66
Exons	1032..1352, 1131..1325		
Seq. No.	53456	Seq. ID	OJ990324_03.0419.C120
Gene No.	112534	Strand	-
Start	2471	End	3890
Name	OJ990324_03.0419.C120.o1.tw	Method	TBLASTX:Wheat
Start	1179	End	1571
GI	none	Score	66
Exons	1179..1469, 1473..1571		
Seq. No.	53456	Seq. ID	OJ990324_03.0419.C120
Gene No.	112534	Strand	-
Start	2471	End	3890
Name	OJ990324_03.0419.C120.o2.tm	Method	TBLASTX:Maize
Start	1347	End	1568
GI	none	Score	231
Exons	1347..1568		
Seq. No.	53456	Seq. ID	OJ990324_03.0419.C120
Gene No.	112534	Strand	-
Start	2471	End	3890
Name	OJ990324_03.0419.C120.o2.np	Method	AAT/NAP
Start	2471	End	3890
GI	6063554	Score	122
Exons	2471..2644, 3773..3890		

GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	53456	Seq. ID	OJ990324_03.0419.C120
Gene No.	112534	Strand	-
Start	2471	End	3890
Name	OJ990324_03.0419.C120.o1.gp	Method	AAT/GAP
Start	2711	End	3093
GI	2427387	Score	508
Exons	2711..3093		
GI Descrip.	5852170/emb|AL117265.1|OST17804 3.0e-94 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		
Seq. No.	53456	Seq. ID	OJ990324_03.0419.C120
Gene No.	112534	Strand	-
Start	2471	End	3890
Name	OJ990324_03.0419.C120.o2.gs	Method	GENSCAN
Start	3616	End	3865
GI	none	Score	.55
Exons	3616..3724, 3798..3865		
Seq. No.	53457	Seq. ID	OJ990324_03.0419.C121
Gene No.	112535	Strand	+
Start	61	End	156
Name	OJ990324_03.0419.C121.o1.gs	Method	GENSCAN
Start	61	End	156
GI	none	Score	.97
Exons	61..156		
Seq. No.	53457	Seq. ID	OJ990324_03.0419.C121
Gene No.	112536	Strand	-
Start	912	End	2464
Name	OJ990324_03.0419.C121.o1.np	Method	AAT/NAP
Start	912	End	2464
GI	6983860	Score	2415
Exons	912..2464		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		
Seq. No.	53457	Seq. ID	OJ990324_03.0419.C121
Gene No.	112536	Strand	-
Start	912	End	2464
Name	OJ990324_03.0419.C121.o3.tw	Method	TBLASTX:Wheat
Start	983	End	1289
GI	none	Score	137
Exons	983..1195, 1012..1215, 1217..1288, 1218..1289		
Seq. No.	53457	Seq. ID	OJ990324_03.0419.C121
Gene No.	112536	Strand	-
Start	912	End	2464
Name	OJ990324_03.0419.C121.o1.tm	Method	TBLASTX:Maize
Start	1153	End	1734
GI	none	Score	68
Exons	1153..1215, 1214..1531, 1218..1358, 1278..1553, 1416..1532, 1531..1575, 1532..1576, 1573..1689, 1580..1690, 1689..1733, 1690..1734		

Seq. No.	53457	Seq. ID	OJ990324_03.0419.C121
Gene No.	112536	Strand	-
Start	912	End	2464
Name	OJ990324_03.0419.C121.o2.tw	Method	TBLASTX:Wheat
Start	1289	End	1921
GI	none	Score	92
Exons	1289..1531, 1404..1532, 1531..1686, 1535..1687, 1601..1690, 1689..1757, 1808..1921, 1818..1919		

Seq. No.	53457	Seq. ID	OJ990324_03.0419.C121
Gene No.	112536	Strand	-
Start	912	End	2464
Name	OJ990324_03.0419.C121.o2.tm	Method	TBLASTX:Maize
Start	1805	End	2082
GI	none	Score	275
Exons	1805..2080, 1806..2081, 1830..2081, 1831..2082		

Seq. No.	53457	Seq. ID	OJ990324_03.0419.C121
Gene No.	112536	Strand	-
Start	912	End	2464
Name	OJ990324_03.0419.C121.o1.ts	Method	TBLASTX:Soybean
Start	1880	End	2140
GI	none	Score	197
Exons	1880..2140, 1881..2129		

Seq. No.	53457	Seq. ID	OJ990324_03.0419.C121
Gene No.	112536	Strand	-
Start	912	End	2464
Name	OJ990324_03.0419.C121.o1.tc	Method	TBLASTX:Cress
Start	1904	End	2230
GI	none	Score	85
Exons	1904..2047, 1905..2045, 2048..2230		

Seq. No.	53457	Seq. ID	OJ990324_03.0419.C121
Gene No.	112536	Strand	-
Start	912	End	2464
Name	OJ990324_03.0419.C121.o1.tw	Method	TBLASTX:Wheat
Start	1928	End	2398
GI	none	Score	296
Exons	1928..2398, 1932..2279		

Seq. No.	53458	Seq. ID	OJ990324_03.0419.C122
Gene No.	112537	Strand	-
Start	1	End	2715
Name	OJ990324_03.0419.C122.o1.np	Method	AAT/NAP
Start	1	End	2715
GI	4680179	Score	3420
Exons	1..2461, 2489..2715		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	53458	Seq. ID	OJ990324_03.0419.C122
Gene No.	112537	Strand	-
Start	1	End	2715
Name	OJ990324_03.0419.C122.o3.tm	Method	TBLASTX:Maize
Start	57	End	305
GI	none	Score	235

Exons	57..302, 67..300, 81..305		
Seq. No.	53458	Seq. ID	OJ990324_03.0419.C122
Gene No.	112537	Strand	-
Start	1	End	2715
Name	OJ990324_03.0419.C122.o2.ts	Method	TBLASTX:Soybean
Start	66	End	326
GI	none	Score	197
Exons	66..326, 67..315		
Seq. No.	53458	Seq. ID	OJ990324_03.0419.C122
Gene No.	112537	Strand	-
Start	1	End	2715
Name	OJ990324_03.0419.C122.o1.tc	Method	TBLASTX:Cress
Start	90	End	416
GI	none	Score	85
Exons	90..233, 91..231, 234..416		
Seq. No.	53458	Seq. ID	OJ990324_03.0419.C122
Gene No.	112537	Strand	-
Start	1	End	2715
Name	OJ990324_03.0419.C122.o1.tw	Method	TBLASTX:Wheat
Start	114	End	653
GI	none	Score	302
Exons	114..653, 118..471		
Seq. No.	53458	Seq. ID	OJ990324_03.0419.C122
Gene No.	112537	Strand	-
Start	1	End	2715
Name	OJ990324_03.0419.C122.o1.gs	Method	GENSCAN
Start	176	End	2619
GI	none	Score	.77
Exons	176..574, 652..2619		
Seq. No.	53458	Seq. ID	OJ990324_03.0419.C122
Gene No.	112537	Strand	-
Start	1	End	2715
Name	OJ990324_03.0419.C122.o1.tm	Method	TBLASTX:Maize
Start	656	End	1012
GI	none	Score	212
Exons	656..1012, 657..1007		
Seq. No.	53458	Seq. ID	OJ990324_03.0419.C122
Gene No.	112537	Strand	-
Start	1	End	2715
Name	OJ990324_03.0419.C122.o2.tw	Method	TBLASTX:Wheat
Start	659	End	1084
GI	none	Score	221
Exons	659..1084, 662..1009, 666..1082		
Seq. No.	53458	Seq. ID	OJ990324_03.0419.C122
Gene No.	112537	Strand	-
Start	1	End	2715
Name	OJ990324_03.0419.C122.o3.ts	Method	TBLASTX:Soybean
Start	830	End	1078
GI	none	Score	206
Exons	830..1078		

Seq. No.	53458	Seq. ID	OJ990324_03.0419.C122
Gene No.	112537	Strand	-
Start	1	End	2715
Name	OJ990324_03.0419.C122.o2.tm	Method	TBLASTX:Maize
Start	1049	End	1549
GI	none	Score	100
Exons	1049..1369, 1170..1298, 1370..1549		

Seq. No.	53458	Seq. ID	OJ990324_03.0419.C122
Gene No.	112537	Strand	-
Start	1	End	2715
Name	OJ990324_03.0419.C122.o4.tw	Method	TBLASTX:Wheat
Start	1085	End	1387
GI	none	Score	255
Exons	1085..1387, 1086..1346		

Seq. No.	53458	Seq. ID	OJ990324_03.0419.C122
Gene No.	112537	Strand	-
Start	1	End	2715
Name	OJ990324_03.0419.C122.o1.ts	Method	TBLASTX:Soybean
Start	1100	End	1495
GI	none	Score	186
Exons	1100..1459, 1110..1343, 1416..1457, 1463..1495, 1463..1495		

Seq. No.	53458	Seq. ID	OJ990324_03.0419.C122
Gene No.	112537	Strand	-
Start	1	End	2715
Name	OJ990324_03.0419.C122.o3.tw	Method	TBLASTX:Wheat
Start	1436	End	1919
GI	none	Score	197
Exons	1436..1918, 1439..1894, 1479..1919		

Seq. No.	53458	Seq. ID	OJ990324_03.0419.C122
Gene No.	112537	Strand	-
Start	1	End	2715
Name	OJ990324_03.0419.C122.o4.ts	Method	TBLASTX:Soybean
Start	1568	End	1882
GI	none	Score	190
Exons	1568..1882		

Seq. No.	53458	Seq. ID	OJ990324_03.0419.C122
Gene No.	112537	Strand	-
Start	1	End	2715
Name	OJ990324_03.0419.C122.o4.tm	Method	TBLASTX:Maize
Start	1617	End	1909
GI	none	Score	149
Exons	1617..1859, 1619..1909		

Seq. No.	53458	Seq. ID	OJ990324_03.0419.C122
Gene No.	112537	Strand	-
Start	1	End	2715
Name	OJ990324_03.0419.C122.o5.tw	Method	TBLASTX:Wheat
Start	2051	End	2404
GI	none	Score	223
Exons	2051..2404		

Seq. No.	53459	Seq. ID	OJ990324_03.0419.C123
Gene No.	112538	Strand	-
Start	1	End	253
Name	OJ990324_03.0419.C123.o1.np	Method	AAT/NAP
Start	1	End	253
GI	6983860	Score	335
Exons	1..253		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	53459	Seq. ID	OJ990324_03.0419.C123
Gene No.	112539	Strand	-
Start	525	End	1319
Name	OJ990324_03.0419.C123.o2.np	Method	AAT/NAP
Start	523	End	1319
GI	4512231	Score	1276
Exons	523..1319		
GI Descrip.	(AB014741) ORF0 protein [Oryza sativa]		

Seq. No.	53459	Seq. ID	OJ990324_03.0419.C123
Gene No.	112539	Strand	-
Start	525	End	1319
Name	OJ990324_03.0419.C123.o1.gs	Method	GENSCAN
Start	525	End	1319
GI	none	Score	.98
Exons	525..1319		

Seq. No.	53460	Seq. ID	OJ990324_03.0419.C124
Gene No.	112540	Strand	+
Start	74	End	872
Name	OJ990324_03.0419.C124.o1.gs	Method	GENSCAN
Start	74	End	872
GI	none	Score	.74
Exons	74..124, 779..872		

Seq. No.	53461	Seq. ID	OJ990324_03.0419.C125
Gene No.	112541	Strand	+
Start	1	End	2783
Name	OJ990324_03.0419.C125.o1.np	Method	AAT/NAP
Start	1	End	2783
GI	7523707	Score	960
Exons	1..22, 371..666, 1121..1339, 2068..2307, 2547..2783		
GI Descrip.	(AC011001) Putative membrane protein [Arabidopsis thaliana]		

Seq. No.	53461	Seq. ID	OJ990324_03.0419.C125
Gene No.	112541	Strand	+
Start	1	End	2783
Name	OJ990324_03.0419.C125.o1.gs	Method	GENSCAN
Start	331	End	2756
GI	none	Score	.85
Exons	331..561, 970..1035, 1121..1339, 2068..2307, 2547..2756		

Seq. No.	53461	Seq. ID	OJ990324_03.0419.C125
Gene No.	112541	Strand	+
Start	1	End	2783
Name	OJ990324_03.0419.C125.o2.ts	Method	TBLASTX:Soybean
Start	1118	End	1333

GI	none	Score	130
Exons	1118..1216, 1120..1215, 1220..1333, 1228..1332		

Seq. No.	53461	Seq. ID	OJ990324_03.0419.C125
Gene No.	112541	Strand	+
Start	1	End	2783
Name	OJ990324_03.0419.C125.o1.tm	Method	TBLASTX:Maize
Start	1255	End	2297
GI	none	Score	148
Exons	1255..1344, 1256..1345, 2059..2256, 2061..2249, 2087..2254, 2244..2297, 2248..2295		

Seq. No.	53461	Seq. ID	OJ990324_03.0419.C125
Gene No.	112541	Strand	+
Start	1	End	2783
Name	OJ990324_03.0419.C125.o1.ts	Method	TBLASTX:Soybean
Start	2086	End	2768
GI	none	Score	137
Exons	2086..2259, 2087..2260, 2088..2321, 2089..2307, 2541..2768, 2541..2756, 2552..2767		

Seq. No.	53461	Seq. ID	OJ990324_03.0419.C125
Gene No.	112541	Strand	+
Start	1	End	2783
Name	OJ990324_03.0419.C125.o2.tm	Method	TBLASTX:Maize
Start	2549	End	2775
GI	none	Score	317
Exons	2549..2755, 2550..2756, 2550..2756, 2551..2757, 2563..2775, 2564..2761		

Seq. No.	53462	Seq. ID	OJ990324_03.0419.C126
Gene No.	112542	Strand	+
Start	221	End	1007
Name	OJ990324_03.0419.C126.o1.gs	Method	GENSCAN
Start	221	End	1001
GI	none	Score	.66
Exons	221..487, 564..1001		

Seq. No.	53462	Seq. ID	OJ990324_03.0419.C126
Gene No.	112542	Strand	+
Start	221	End	1007
Name	OJ990324_03.0419.C126.o1.np	Method	AAT/NAP
Start	221	End	1007
GI	7523707	Score	531
Exons	221..487, 564..767, 849..1007		
GI Descrip.	(AC011001) Putative membrane protein [Arabidopsis thaliana]		

Seq. No.	53462	Seq. ID	OJ990324_03.0419.C126
Gene No.	112542	Strand	+
Start	221	End	1007
Name	OJ990324_03.0419.C126.o1.gp	Method	AAT/GAP
Start	239	End	878
GI	LIB3479-005-Q6-K1-F3	Score	915
Exons	239..487, 564..767, 848..878		
GI Descrip.	'1136434/dbj|BAA11504| 2.0e-31 (D80009) KIAA0187 [Homo sapiens]'		

Seq. No.	53462	Seq. ID	OJ990324_03.0419.C126

Gene No.	112543	Strand	-
Start	1599	End	1835
Name	OJ990324_03.0419.C126.o2.tm	Method	TBLASTX:Maize
Start	218	End	345
GI	none	Score	187
Exons	218..343, 218..343, 220..345, 220..345		

Seq. No.	53462	Seq. ID	OJ990324_03.0419.C126
Gene No.	112543	Strand	-
Start	1599	End	1835
Name	OJ990324_03.0419.C126.o1.tm	Method	TBLASTX:Maize
Start	346	End	1001
GI	none	Score	214
Exons	346..486, 347..487, 552..674, 561..671, 563..685, 575..766, 666..767, 666..767, 667..768, 912..1001		

Seq. No.	53462	Seq. ID	OJ990324_03.0419.C126
Gene No.	112543	Strand	-
Start	1599	End	1835
Name	OJ990324_03.0419.C126.o1.tc	Method	TBLASTX:Cress
Start	455	End	761
GI	none	Score	45
Exons	455..493, 552..761, 566..760		

Seq. No.	53462	Seq. ID	OJ990324_03.0419.C126
Gene No.	112543	Strand	-
Start	1599	End	1835
Name	OJ990324_03.0419.C126.o2.gs	Method	GENSCAN
Start	1599	End	1835
GI	none	Score	.47
Exons	1599..1835		

Seq. No.	53463	Seq. ID	OJ990324_03.0419.C127
Gene No.	112544	Strand	-
Start	596	End	736
Name	OJ990324_03.0419.C127.o1.gs	Method	GENSCAN
Start	596	End	736
GI	none	Score	.6
Exons	596..736		

Seq. No.	53464	Seq. ID	OJ990324_03.0419.C132
Gene No.	112545	Strand	-
Start	2346	End	2582
Name	OJ990324_03.0419.C132.o2.gs	Method	GENSCAN
Start	2346	End	2582
GI	none	Score	.48
Exons	2346..2582		

Seq. No.	53465	Seq. ID	OJ990324_03.0419.C134
Gene No.	112546	Strand	+
Start	1841	End	2508
Name	OJ990324_03.0419.C134.o1.gs	Method	GENSCAN
Start	1841	End	2508
GI	none	Score	.56
Exons	1841..2018, 2111..2165, 2280..2343, 2466..2508		

Seq. No.	53466	Seq. ID	OJ990324_03.0419.C136

Gene No.	112547	Strand	-
Start	642	End	740
Name	OJ990324_03.0419.C136.o1.tm	Method	TBLASTX:Maize
Start	395	End	740
GI	none	Score	65
Exons	395..460, 402..461, 402..461, 495..527, 495..527, 633..740, 634..738, 636..740		

Seq. No.	53466	Seq. ID	OJ990324_03.0419.C136
Gene No.	112547	Strand	-
Start	642	End	740
Name	OJ990324_03.0419.C136.o1.np	Method	AAT/NAP
Start	642	End	740
GI	3786014	Score	129
Exons	642..740		
GI Descrip.	(AC005499) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53467	Seq. ID	OJ990324_03.0419.C138
Gene No.	112548	Strand	-
Start	1	End	455
Name	OJ990324_03.0419.C138.o1.gp	Method	AAT/GAP
Start	1	End	455
GI	4254_1.R1084	Score	882
Exons	1..455		
GI Descrip.	'1651865/dbj|BAA16792| 4.0e-14 (D90900) hypothetical protein [Synechocystis sp.]'		

Seq. No.	53467	Seq. ID	OJ990324_03.0419.C138
Gene No.	112548	Strand	-
Start	1	End	455
Name	OJ990324_03.0419.C138.o1.tm	Method	TBLASTX:Maize
Start	2	End	325
GI	none	Score	184
Exons	2..217, 2..223, 3..221, 243..323, 244..312, 257..325		

Seq. No.	53467	Seq. ID	OJ990324_03.0419.C138
Gene No.	112548	Strand	-
Start	1	End	455
Name	OJ990324_03.0419.C138.o1.tc	Method	TBLASTX:Cress
Start	3	End	173
GI	none	Score	186
Exons	3..146, 22..150, 23..145, 48..173		

Seq. No.	53467	Seq. ID	OJ990324_03.0419.C138
Gene No.	112548	Strand	-
Start	1	End	455
Name	OJ990324_03.0419.C138.o1.ts	Method	TBLASTX:Soybean
Start	3	End	149
GI	none	Score	223
Exons	3..149, 5..148		

Seq. No.	53468	Seq. ID	OJ990324_03.0419.C139
Gene No.	112549	Strand	-
Start	1	End	334
Name	OJ990324_03.0419.C139.o1.gp	Method	AAT/GAP
Start	1	End	334
GI	56410_1.R1084	Score	553

Exons	1..334		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 3.0e-94 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		
Seq. No.	53469	Seq. ID	OJ990324_03.0419.C140
Gene No.	112550	Strand	+
Start	485	End	1070
Name	OJ990324_03.0419.C140.o1.gs	Method	GENSCAN
Start	485	End	1070
GI	none	Score	.68
Exons	485..603, 737..1070		
Seq. No.	53470	Seq. ID	OJ990324_03.0419.C141
Gene No.	112551	Strand	+
Start	37	End	360
Name	OJ990324_03.0419.C141.o1.gs	Method	GENSCAN
Start	37	End	360
GI	none	Score	.99
Exons	37..360		
Seq. No.	53470	Seq. ID	OJ990324_03.0419.C141
Gene No.	112552	Strand	-
Start	782	End	2608
Name	OJ990324_03.0419.C141.o1.tm	Method	TBLASTX:Maize
Start	617	End	2607
GI	none	Score	52
Exons	617..697, 622..702, 630..698, 699..725, 700..756, 779..859, 782..856, 789..857, 1076..1252, 1078..1257, 1079..1255, 1814..1927, 1814..1927, 1815..1928, 1816..1929, 1854..1931, 1996..2079, 2001..2087, 2001..2075, 2003..2080, 2420..2605, 2421..2585, 2452..2607		
Seq. No.	53470	Seq. ID	OJ990324_03.0419.C141
Gene No.	112552	Strand	-
Start	782	End	2608
Name	OJ990324_03.0419.C141.o1.tc	Method	TBLASTX:Cress
Start	779	End	2605
GI	none	Score	65
Exons	779..880, 788..856, 1076..1255, 1077..1256, 1078..1257, 1814..1927, 1815..1922, 2001..2048, 2005..2028, 2022..2075, 2420..2605, 2448..2585		
Seq. No.	53470	Seq. ID	OJ990324_03.0419.C141
Gene No.	112552	Strand	-
Start	782	End	2608
Name	OJ990324_03.0419.C141.o1.np	Method	AAT/NAP
Start	782	End	2606
GI	3913733	Score	689
Exons	782..853, 1078..1254, 1814..1927, 2001..2079, 2445..2606		
GI Descrip.	HYDROXYACYLGLUTATHIONE HYDROLASE CYTOPLASMIC (GLYOXALASE II) (GLX II) gi|1924921|emb|CAA69644| (Y08357) hydroxyacylglutathione hydrolase [Arabidopsis thaliana] gi|6630545|gb|AAF19564.1|AC011708_7 (AC011708) hydroxyacylglutathione hydrolase cytoplasmic (glyoxalase II) (GLX II) [Arabidopsis thaliana]		
Seq. No.	53470	Seq. ID	OJ990324_03.0419.C141

Gene No.	112552	Strand	-
Start	782	End	2608
Name	OJ990324_03.0419.C141.o2.ts	Method	TBLASTX:Soybean
Start	806	End	1257
GI	none	Score	142
Exons	806..859, 1078..1257, 1082..1255		

Seq. No.	53470	Seq. ID	OJ990324_03.0419.C141
Gene No.	112552	Strand	-
Start	782	End	2608
Name	OJ990324_03.0419.C141.o2.gs	Method	GENSCAN
Start	940	End	2581
GI	none	Score	.63
Exons	940..1272, 1814..1927, 2001..2079, 2445..2581		

Seq. No.	53470	Seq. ID	OJ990324_03.0419.C141
Gene No.	112552	Strand	-
Start	782	End	2608
Name	OJ990324_03.0419.C141.o1.gp	Method	AAT/GAP
Start	1130	End	2497
GI	2443021	Score	667
Exons	1130..1254, 1814..1927, 2001..2079, 2445..2497		
GI Descrip.	3913733/sp|O24496|GL2C_ARATH 9.0e-50 HYDROXYACYLGLUTATHIONE HYDROLASE CYTOPLASMIC ISOZYME (GLYOXALASE II) (GLX II) >gi_1924921_emb_CAA69644_ (Y08357) hydroxyacylglutathione hydrolase [Arabidopsis thaliana]		

Seq. No.	53470	Seq. ID	OJ990324_03.0419.C141
Gene No.	112552	Strand	-
Start	782	End	2608
Name	OJ990324_03.0419.C141.o1.ts	Method	TBLASTX:Soybean
Start	1829	End	2608
GI	none	Score	111
Exons	1829..1927, 1830..1928, 1860..1928, 2001..2081, 2001..2075, 2005..2082, 2555..2608		

Seq. No.	53471	Seq. ID	OJ990324_03.0419.C142
Gene No.	112553	Strand	+
Start	1137	End	1449
Name	OJ990324_03.0419.C142.o1.gp	Method	AAT/GAP
Start	1137	End	1449
GI	3760334	Score	575
Exons	1137..1449		
GI Descrip.	2500354/sp|P93847|RL10_SOLME 1.0e-35 60S RIBOSOMAL PROTEIN L10 (EQM) >gi_1902894_dbj_BAA19462_ (AB001891) QM family protein [Solanum melongena]		

Seq. No.	53472	Seq. ID	OJ990324_03.0419.C143
Gene No.	112554	Strand	+
Start	118	End	551
Name	OJ990324_03.0419.C143.o1.gs	Method	GENSCAN
Start	118	End	551
GI	none	Score	.68
Exons	118..252, 258..352, 474..551		

Seq. No.	53472	Seq. ID	OJ990324_03.0419.C143
Gene No.	112555	Strand	-

Start	1	End	365
Name	OJ990324_03.0419.C143.o1.gp	Method	AAT/GAP
Start	1	End	365
GI	2312091	Score	679
Exons	1..365		
GI Descrip.	6093994/sp|O22431|RL10_PINTA 1.0e-12 60S RIBOSOMAL PROTEIN L10 (WILM'S TUMOR SUPRESSOR HOMOLOG) >gi_2317762 (AF013804) Wilm's tumor supressor homolog [Pinus taeda]		

Seq. No.	53472	Seq. ID	OJ990324_03.0419.C143
Gene No.	112555	Strand	-
Start	1	End	365
Name	OJ990324_03.0419.C143.o1.np	Method	AAT/NAP
Start	1	End	140
GI	6093994	Score	194
Exons	1..140		
GI Descrip.	60S RIBOSOMAL PROTEIN L10 (WILM'S TUMOR SUPRESSOR HOMOLOG) gi|7447295|pir||T07957 probable ribosomal protein L10.e - loblolly pine gi|2317762|gb|AAB66347.1| (AF013804) Wilm's tumor supressor homolog [Pinus taeda]		

Seq. No.	53472	Seq. ID	OJ990324_03.0419.C143
Gene No.	112555	Strand	-
Start	1	End	365
Name	OJ990324_03.0419.C143.o1.tc	Method	TBLASTX:Cress
Start	1	End	150
GI	none	Score	136
Exons	1..129, 3..146, 37..150		

Seq. No.	53472	Seq. ID	OJ990324_03.0419.C143
Gene No.	112555	Strand	-
Start	1	End	365
Name	OJ990324_03.0419.C143.o1.tm	Method	TBLASTX:Maize
Start	1	End	132
GI	none	Score	117
Exons	1..129, 3..128, 37..132		

Seq. No.	53472	Seq. ID	OJ990324_03.0419.C143
Gene No.	112555	Strand	-
Start	1	End	365
Name	OJ990324_03.0419.C143.o1.ts	Method	TBLASTX:Soybean
Start	1	End	129
GI	none	Score	123
Exons	1..129, 3..128		

Seq. No.	53473	Seq. ID	OJ990324_03.0419.C147
Gene No.	112556	Strand	+
Start	711	End	1140
Name	OJ990324_03.0419.C147.o1.gs	Method	GENSCAN
Start	711	End	1140
GI	none	Score	.64
Exons	711..882, 1109..1140		

Seq. No.	53474	Seq. ID	OJ990324_03.0419.C149
Gene No.	112557	Strand	+
Start	57	End	119
Name	OJ990324_03.0419.C149.o1.gp	Method	AAT/GAP

Start	57	End	119
GI	287160	Score	74
Exons	57..119		

Seq. No.	53474	Seq. ID	OJ990324_03.0419.C149
Gene No.	112558	Strand	+
Start	113	End	324
Name	OJ990324_03.0419.C149.o1.ts	Method	TBLASTX:Soybean
Start	57	End	265
GI	none	Score	81
Exons	57..122, 61..123, 62..139, 90..140, 143..265, 144..263		

Seq. No.	53474	Seq. ID	OJ990324_03.0419.C149
Gene No.	112558	Strand	+
Start	113	End	324
Name	OJ990324_03.0419.C149.o1.tm	Method	TBLASTX:Maize
Start	62	End	324
GI	none	Score	270
Exons	62..262, 90..263, 274..324		

Seq. No.	53474	Seq. ID	OJ990324_03.0419.C149
Gene No.	112558	Strand	+
Start	113	End	324
Name	OJ990324_03.0419.C149.o1.gs	Method	GENSCAN
Start	113	End	263
GI	none	Score	.59
Exons	113..263		

Seq. No.	53475	Seq. ID	OJ990324_03.0419.C150
Gene No.	112559	Strand	-
Start	752	End	3331
Name	OJ990324_03.0419.C150.o1.gs	Method	GENSCAN
Start	752	End	3309
GI	none	Score	.47
Exons	752..927, 1120..1534, 1760..1931, 2181..2428, 3103..3309		

Seq. No.	53475	Seq. ID	OJ990324_03.0419.C150
Gene No.	112559	Strand	-
Start	752	End	3331
Name	OJ990324_03.0419.C150.o1.tm	Method	TBLASTX:Maize
Start	1106	End	1925
GI	none	Score	181
Exons	1106..1246, 1111..1197, 1113..1232, 1121..1276, 1122..1277, 1239..1532, 1241..1534, 1242..1538, 1243..1569, 1706..1918, 1708..1920, 1710..1895, 1710..1925, 1714..1920		

Seq. No.	53475	Seq. ID	OJ990324_03.0419.C150
Gene No.	112559	Strand	-
Start	752	End	3331
Name	OJ990324_03.0419.C150.o1.ts	Method	TBLASTX:Soybean
Start	1124	End	3195
GI	none	Score	66
Exons	1124..1348, 1125..1316, 1337..1534, 1338..1517, 1706..1888, 3100..3195		

Seq. No.	53475	Seq. ID	OJ990324_03.0419.C150
Gene No.	112559	Strand	-

Start	752	End	3331
Name	OJ990324_03.0419.C150.o1.tc	Method	TBLASTX:Cress
Start	1145	End	1528
GI	none	Score	93
Exons	1145..1339, 1322..1528, 1350..1517		

Seq. No.	53475	Seq. ID	OJ990324_03.0419.C150
Gene No.	112559	Strand	-
Start	752	End	3331
Name	OJ990324_03.0419.C150.o1.tw	Method	TBLASTX:Wheat
Start	1454	End	1900
GI	none	Score	63
Exons	1454..1534, 1455..1547, 1745..1900, 1749..1892		

Seq. No.	53475	Seq. ID	OJ990324_03.0419.C150
Gene No.	112559	Strand	-
Start	752	End	3331
Name	OJ990324_03.0419.C150.o3.tm	Method	TBLASTX:Maize
Start	1928	End	2086
GI	none	Score	128
Exons	1928..2086, 1936..2055		

Seq. No.	53475	Seq. ID	OJ990324_03.0419.C150
Gene No.	112559	Strand	-
Start	752	End	3331
Name	OJ990324_03.0419.C150.o2.tm	Method	TBLASTX:Maize
Start	2291	End	3331
GI	none	Score	175
Exons	2291..2320, 2292..2429, 2293..2430, 2304..2429, 2372..2446, 3103..3330, 3104..3331		

Seq. No.	53476	Seq. ID	OJ990324_03.0419.C151
Gene No.	112560	Strand	+
Start	284	End	478
Name	OJ990324_03.0419.C151.o1.gs	Method	GENSCAN
Start	284	End	478
GI	none	Score	.86
Exons	284..478		

Seq. No.	53476	Seq. ID	OJ990324_03.0419.C151
Gene No.	112561	Strand	-
Start	914	End	976
Name	OJ990324_03.0419.C151.o2.gs	Method	GENSCAN
Start	914	End	976
GI	none	Score	.49
Exons	914..976		

Seq. No.	53477	Seq. ID	OJ990324_03.0419.C154
Gene No.	112562	Strand	-
Start	206	End	361
Name	OJ990324_03.0419.C154.o1.gp	Method	AAT/GAP
Start	206	End	361
GI	533_1.R1084	Score	162
Exons	206..259, 282..361		
GI Descrip.	'113172/sp|P15543|ACP3_HORVU 9.0e-52 ACYL CARRIER PROTEIN III PRECURSOR (ACP III) >gi_100561_pir__S17928 acyl carrier protein 3 - barley >gi_166971 (M58754) acyl carrier protein III [Hordeum		

vulgare]'

Seq. No.	53478	Seq. ID	OJ990324_03.0419.C156
Gene No.	112563	Strand	-
Start	645	End	1402
Name	OJ990324_03.0419.C156.o2.tw	Method	TBLASTX:Wheat
Start	154	End	506
GI	none	Score	74
Exons	154..258, 171..257, 284..358, 285..362, 288..359, 289..363, 292..360, 362..433, 363..425, 434..505, 435..506		

Seq. No.	53478	Seq. ID	OJ990324_03.0419.C156
Gene No.	112563	Strand	-
Start	645	End	1402
Name	OJ990324_03.0419.C156.o1.np	Method	AAT/NAP
Start	645	End	1402
GI	6630696	Score	1105
Exons	645..1402		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	53478	Seq. ID	OJ990324_03.0419.C156
Gene No.	112563	Strand	-
Start	645	End	1402
Name	OJ990324_03.0419.C156.o1.tw	Method	TBLASTX:Wheat
Start	781	End	1276
GI	none	Score	229
Exons	781..1029, 782..919, 786..1028, 814..1032, 971..1057, 1011..1091, 1030..1092, 1030..1086, 1032..1088, 1055..1195, 1056..1187, 1092..1196, 1188..1271, 1202..1276, 1203..1271, 1207..1275		

Seq. No.	53478	Seq. ID	OJ990324_03.0419.C156
Gene No.	112563	Strand	-
Start	645	End	1402
Name	OJ990324_03.0419.C156.o1.gs	Method	GENSCAN
Start	1078	End	1177
GI	none	Score	.71
Exons	1078..1177		

Seq. No.	53478	Seq. ID	OJ990324_03.0419.C156
Gene No.	112563	Strand	-
Start	645	End	1402
Name	OJ990324_03.0419.C156.o1.tm	Method	TBLASTX:Maize
Start	1133	End	1400
GI	none	Score	240
Exons	1133..1399, 1134..1400		

Seq. No.	53479	Seq. ID	OJ990324_03.0419.C157
Gene No.	112564	Strand	-
Start	1	End	1932
Name	OJ990324_03.0419.C157.o1.np	Method	AAT/NAP
Start	1	End	1932
GI	6630696	Score	3093
Exons	1..1932		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a		

region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]

Seq. No.	53479	Seq. ID	OJ990324_03.0419.C157
Gene No.	112564	Strand	-
Start	1	End	1932
Name	OJ990324_03.0419.C157.o1.gs	Method	GENSCAN
Start	11	End	1756
GI	none	Score	.53
Exons	11..1387, 1429..1756		

Seq. No.	53479	Seq. ID	OJ990324_03.0419.C157
Gene No.	112564	Strand	-
Start	1	End	1932
Name	OJ990324_03.0419.C157.o2.tw	Method	TBLASTX:Wheat
Start	21	End	566
GI	none	Score	59
Exons	21..227, 31..153, 222..566, 388..549		

Seq. No.	53479	Seq. ID	OJ990324_03.0419.C157
Gene No.	112564	Strand	-
Start	1	End	1932
Name	OJ990324_03.0419.C157.o1.tm	Method	TBLASTX:Maize
Start	102	End	567
GI	none	Score	61
Exons	102..566, 205..315, 351..413, 436..567		

Seq. No.	53479	Seq. ID	OJ990324_03.0419.C157
Gene No.	112564	Strand	-
Start	1	End	1932
Name	OJ990324_03.0419.C157.o1.ts	Method	TBLASTX:Soybean
Start	237	End	701
GI	5509260	Score	92
Exons	237..701, 445..606		
GI Descrip.	-		

Seq. No.	53479	Seq. ID	OJ990324_03.0419.C157
Gene No.	112564	Strand	-
Start	1	End	1932
Name	OJ990324_03.0419.C157.o1.tc	Method	TBLASTX:Cress
Start	348	End	608
GI	none	Score	108
Exons	348..608, 436..606, 489..608		

Seq. No.	53479	Seq. ID	OJ990324_03.0419.C157
Gene No.	112564	Strand	-
Start	1	End	1932
Name	OJ990324_03.0419.C157.o1.tw	Method	TBLASTX:Wheat
Start	621	End	1376
GI	none	Score	97
Exons	621..779, 621..1376, 625..804, 641..1171, 886..1368		

Seq. No.	53479	Seq. ID	OJ990324_03.0419.C157
Gene No.	112564	Strand	-
Start	1	End	1932
Name	OJ990324_03.0419.C157.o2.tc	Method	TBLASTX:Cress
Start	915	End	1409

GI	none	Score	130
Exons	915..998, 1002..1190, 1206..1409		

Seq. No.	53479	Seq. ID	OJ990324_03.0419.C157
Gene No.	112564	Strand	-
Start	1	End	1932
Name	OJ990324_03.0419.C157.o2.ts	Method	TBLASTX:Soybean
Start	1026	End	1410
GI	none	Score	99
Exons	1026..1199, 1203..1409, 1204..1410		

Seq. No.	53479	Seq. ID	OJ990324_03.0419.C157
Gene No.	112564	Strand	-
Start	1	End	1932
Name	OJ990324_03.0419.C157.o2.tm	Method	TBLASTX:Maize
Start	1212	End	1675
GI	none	Score	75
Exons	1212..1397, 1285..1395, 1403..1675		

Seq. No.	53479	Seq. ID	OJ990324_03.0419.C157
Gene No.	112564	Strand	-
Start	1	End	1932
Name	OJ990324_03.0419.C157.o3.tw	Method	TBLASTX:Wheat
Start	1388	End	1714
GI	none	Score	238
Exons	1388..1714		

Seq. No.	53479	Seq. ID	OJ990324_03.0419.C157
Gene No.	112564	Strand	-
Start	1	End	1932
Name	OJ990324_03.0419.C157.o3.ts	Method	TBLASTX:Soybean
Start	1415	End	1592
GI	none	Score	109
Exons	1415..1591, 1418..1582, 1509..1592		

Seq. No.	53480	Seq. ID	OJ990324_03.0419.C159
Gene No.	112565	Strand	+
Start	1	End	1031
Name	OJ990324_03.0419.C159.o1.np	Method	AAT/NAP
Start	1	End	1031
GI	1362152	Score	890
Exons	1..121, 224..306, 385..505, 603..776, 886..1031		
GI Descrip.	ribosomal protein S6 kinase homolog (clone Aspk11) - oat gi|871986|emb|CAA56313| (X79992) putative pp70 ribosomal protein S6 kinase [Avena sativa]		

Seq. No.	53480	Seq. ID	OJ990324_03.0419.C159
Gene No.	112565	Strand	+
Start	1	End	1031
Name	OJ990324_03.0419.C159.o1.ts	Method	TBLASTX:Soybean
Start	1	End	996
GI	none	Score	124
Exons	1..120, 1..120, 2..121, 6..125, 211..288, 212..307, 216..284, 221..310, 368..505, 369..506, 369..506, 382..507, 382..510, 383..514, 605..775, 605..775, 606..776, 876..992, 883..996, 885..995		

Seq. No.	53480	Seq. ID	OJ990324_03.0419.C159
Gene No.	112565	Strand	+
Start	1	End	1031
Name	OJ990324_03.0419.C159.o1.tc	Method	TBLASTX:Cress
Start	1	End	995
GI	none	Score	79
Exons	1..120, 1..120, 2..121, 211..288, 212..307, 216..287, 221..310, 368..508, 370..507, 381..509, 382..510, 383..514, 605..775, 606..794, 888..995		

Seq. No.	53480	Seq. ID	OJ990324_03.0419.C159
Gene No.	112565	Strand	+
Start	1	End	1031
Name	OJ990324_03.0419.C159.o1.tm	Method	TBLASTX:Maize
Start	2	End	996
GI	none	Score	203
Exons	2..121, 2..121, 3..122, 212..307, 216..299, 222..308, 223..306, 382..501, 383..514, 577..774, 600..776, 603..788, 876..992, 883..996, 884..964, 885..992		

Seq. No.	53480	Seq. ID	OJ990324_03.0419.C159
Gene No.	112565	Strand	+
Start	1	End	1031
Name	OJ990324_03.0419.C159.o1.gs	Method	GENSCAN
Start	8	End	993
GI	none	Score	.96
Exons	8..108, 385..505, 603..776, 886..993		

Seq. No.	53480	Seq. ID	OJ990324_03.0419.C159
Gene No.	112565	Strand	+
Start	1	End	1031
Name	OJ990324_03.0419.C159.o1.gp	Method	AAT/GAP
Start	888	End	993
GI	uC-osf1M202081g05b1	Score	181
Exons	888..993		
GI Descrip.	'1362152/pir||S56639 9.0e-66 ribosomal protein S6 kinase homolog (clone Aspk11) - oat >gi_871986_emb_CAA56313_ (X79992) putative pp70 ribosomal protein S6 kinase [Avena sativa]'		

Seq. No.	53481	Seq. ID	OJ990324_03.0419.C160
Gene No.	112566	Strand	+
Start	119	End	1639
Name	OJ990324_03.0419.C160.o1.tm	Method	TBLASTX:Maize
Start	109	End	667
GI	none	Score	97
Exons	109..225, 116..229, 117..197, 118..225, 348..605, 349..651, 349..405, 350..655, 405..596, 454..636, 485..667		

Seq. No.	53481	Seq. ID	OJ990324_03.0419.C160
Gene No.	112566	Strand	+
Start	119	End	1639
Name	OJ990324_03.0419.C160.o1.ts	Method	TBLASTX:Soybean
Start	109	End	615
GI	none	Score	77
Exons	109..225, 116..229, 118..228, 337..567, 417..566, 586..615		

Seq. No.	53481	Seq. ID	OJ990324_03.0419.C160

Gene No.	112566	Strand	+
Start	119	End	1639
Name	OJ990324_03.0419.C160.o1.gs	Method	GENSCAN
Start	119	End	1639
GI	none	Score	.83
Exons	119..226, 349..603, 1257..1517, 1559..1639		

Seq. No.	53481	Seq. ID	OJ990324_03.0419.C160
Gene No.	112566	Strand	+
Start	119	End	1639
Name	OJ990324_03.0419.C160.o1.np	Method	AAT/NAP
Start	119	End	645
GI	1362152	Score	591
Exons	119..226, 349..645		
GI Descrip.	ribosomal protein S6 kinase homolog (clone Aspk11) - oat gi|871986|emb|CAA56313| (X79992) putative pp70 ribosomal protein S6 kinase [Avena sativa]		

Seq. No.	53481	Seq. ID	OJ990324_03.0419.C160
Gene No.	112566	Strand	+
Start	119	End	1639
Name	OJ990324_03.0419.C160.o1.gp	Method	AAT/GAP
Start	121	End	760
GI	uC-osflM202081g05b1	Score	991
Exons	121..226, 349..760		
GI Descrip.	'1362152/pir||S56639 9.0e-66 ribosomal protein S6 kinase homolog (clone Aspk11) - oat >gi_871986_emb_CAA56313_ (X79992) putative pp70 ribosomal protein S6 kinase [Avena sativa]'		

Seq. No.	53481	Seq. ID	OJ990324_03.0419.C160
Gene No.	112566	Strand	+
Start	119	End	1639
Name	OJ990324_03.0419.C160.o1.tc	Method	TBLASTX:Cress
Start	121	End	612
GI	none	Score	47
Exons	121..228, 182..229, 337..567, 348..581, 586..612		

Seq. No.	53481	Seq. ID	OJ990324_03.0419.C160
Gene No.	112566	Strand	+
Start	119	End	1639
Name	OJ990324_03.0419.C160.o1.tw	Method	TBLASTX:Wheat
Start	391	End	656
GI	none	Score	432
Exons	391..651, 393..656, 405..596, 457..651		

Seq. No.	53482	Seq. ID	OJ990324_03.0419.C161
Gene No.	112567	Strand	+
Start	1	End	3398
Name	OJ990324_03.0419.C161.o1.np	Method	AAT/NAP
Start	1	End	1877
GI	5042438	Score	225
Exons	1..30, 1297..1877		
GI Descrip.	(AC007789) hypothetical protein [Oryza sativa]		

Seq. No.	53482	Seq. ID	OJ990324_03.0419.C161
Gene No.	112567	Strand	+
Start	1	End	3398

Name	OJ990324_03.0419.C161.o1.gs	Method	GENSCAN
Start	808	End	3398
GI	none	Score	.97
Exons	808..1897, 2653..2710, 2826..2860, 3109..3187, 3362..3398		

Seq. No.	53482	Seq. ID	OJ990324_03.0419.C161
Gene No.	112567	Strand	+
Start	1	End	3398
Name	OJ990324_03.0419.C161.o1.gp	Method	AAT/GAP
Start	1011	End	1480
GI	LIB3432-044-P1-K1-F3	Score	882
Exons	1011..1480		
GI Descrip.	'5042438/gb|AAD38275.1|AC007789_1 5.0e-12 (AC007789) hypothetical protein [Oryza sativa]'		

Seq. No.	53482	Seq. ID	OJ990324_03.0419.C161
Gene No.	112568	Strand	+
Start	7024	End	9350
Name	OJ990324_03.0419.C161.o2.np	Method	AAT/NAP
Start	7024	End	9350
GI	6721547	Score	89
Exons	7024..7117, 9316..9350		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	53482	Seq. ID	OJ990324_03.0419.C161
Gene No.	112568	Strand	+
Start	7024	End	9350
Name	OJ990324_03.0419.C161.o3.np	Method	AAT/NAP
Start	7998	End	9350
GI	6721547	Score	84
Exons	7998..8091, 9316..9350		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		

Seq. No.	53482	Seq. ID	OJ990324_03.0419.C161
Gene No.	112568	Strand	+
Start	7024	End	9350
Name	OJ990324_03.0419.C161.o4.gp	Method	AAT/GAP
Start	8924	End	9350
GI	7392_1.R1084	Score	406
Exons	8924..9058, 9133..9200, 9281..9350		
GI Descrip.	'2500354/sp|P93847|RL10_SOLME 1.0e-35 60S RIBOSOMAL PROTEIN L10 (EQM) >gi_1902894_dbj_BAA19462_ (AB001891) QM family protein [Solanum melongena]'		

Seq. No.	53482	Seq. ID	OJ990324_03.0419.C161
Gene No.	112569	Strand	-
Start	2811	End	3469
Name	OJ990324_03.0419.C161.o2.gp	Method	AAT/GAP
Start	2811	End	3469
GI	none	Score	1214
Exons	2811..3469		

Seq. No.	53482	Seq. ID	OJ990324_03.0419.C161
Gene No.	112570	Strand	-
Start	4525	End	9254
Name	OJ990324_03.0419.C161.o2.gs	Method	GENSCAN
Start	4525	End	9254

GI	none	Score	.46
Exons	4525..4551, 8787..8897, 9105..9254		

Seq. No.	53483	Seq. ID	OJ990324_03.0419.C162
Gene No.	112571	Strand	+
Start	280	End	1976
Name	OJ990324_03.0419.C162.o1.gp	Method	AAT/GAP
Start	280	End	664
GI	7392_1.R1084	Score	731
Exons	280..664		
GI Descrip.	'2500354/sp|P93847|RL10_SOLME 1.0e-35 60S RIBOSOMAL PROTEIN L10 (EQM) >gi_1902894_dbj_BAA19462_ (AB001891) QM family protein [Solanum melongena]'		

Seq. No.	53483	Seq. ID	OJ990324_03.0419.C162
Gene No.	112571	Strand	+
Start	280	End	1976
Name	OJ990324_03.0419.C162.o1.gs	Method	GENSCAN
Start	280	End	1976
GI	none	Score	.72
Exons	280..429, 589..953, 1566..1582, 1708..1976		

Seq. No.	53483	Seq. ID	OJ990324_03.0419.C162
Gene No.	112571	Strand	+
Start	280	End	1976
Name	OJ990324_03.0419.C162.o2.gp	Method	AAT/GAP
Start	765	End	1164
GI	LIB3432-040-P1-K1-C12	Score	596
Exons	765..790, 852..1164		
GI Descrip.	'6015437/dbj|AB008112.1|AB008112 4.0e-10 Homo sapiens PEX1 mRNA, complete cds'		

Seq. No.	53483	Seq. ID	OJ990324_03.0419.C162
Gene No.	112572	Strand	-
Start	2456	End	3094
Name	OJ990324_03.0419.C162.o2.gs	Method	GENSCAN
Start	2456	End	3094
GI	none	Score	.6
Exons	2456..2606, 3000..3094		

Seq. No.	53484	Seq. ID	OJ990324_03.0419.C163
Gene No.	112573	Strand	+
Start	194	End	561
Name	OJ990324_03.0419.C163.o1.gp	Method	AAT/GAP
Start	194	End	496
GI	uC-osf1M202081g05b1	Score	545
Exons	194..496		
GI Descrip.	'1362152/pir||S56639 9.0e-66 ribosomal protein S6 kinase homolog (clone Aspk11) - oat >gi_871986_emb_CAA56313_ (X79992) putative pp70 ribosomal protein S6 kinase [Avena sativa]'		

Seq. No.	53484	Seq. ID	OJ990324_03.0419.C163
Gene No.	112573	Strand	+
Start	194	End	561
Name	OJ990324_03.0419.C163.o1.gs	Method	GENSCAN
Start	198	End	561
GI	none	Score	.82

Exons	198..339, 529..561		
Seq. No.	53484	Seq. ID	OJ990324_03.0419.C163
Gene No.	112573	Strand	+
Start	194	End	561
Name	OJ990324_03.0419.C163.o1.np	Method	AAT/NAP
Start	211	End	381
GI	1362152	Score	264
Exons	211..381		
GI Descrip.	ribosomal protein S6 kinase homolog (clone Aspk11) - oat gi|871986|emb|CAA56313| (X79992) putative pp70 ribosomal protein S6 kinase [Avena sativa]		
Seq. No.	53484	Seq. ID	OJ990324_03.0419.C163
Gene No.	112574	Strand	+
Start	1180	End	1559
Name	OJ990324_03.0419.C163.o1.tm	Method	TBLASTX:Maize
Start	197	End	403
GI	none	Score	147
Exons	197..403, 204..341, 211..387, 218..391		
Seq. No.	53484	Seq. ID	OJ990324_03.0419.C163
Gene No.	112574	Strand	+
Start	1180	End	1559
Name	OJ990324_03.0419.C163.o1.tw	Method	TBLASTX:Wheat
Start	207	End	388
GI	none	Score	295
Exons	207..332, 211..387, 217..387, 218..388		
Seq. No.	53484	Seq. ID	OJ990324_03.0419.C163
Gene No.	112574	Strand	+
Start	1180	End	1559
Name	OJ990324_03.0419.C163.o2.gs	Method	GENSCAN
Start	1180	End	1559
GI	none	Score	.72
Exons	1180..1196, 1325..1559		
Seq. No.	53485	Seq. ID	OJ990324_03.0419.C166
Gene No.	112575	Strand	+
Start	1	End	568
Name	OJ990324_03.0419.C166.o1.np	Method	AAT/NAP
Start	1	End	568
GI	6539581	Score	221
Exons	1..347, 422..568		
GI Descrip.	(AP000837) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F20D10; hypothetical protein (AL035538) [Oryza sativa]		
Seq. No.	53485	Seq. ID	OJ990324_03.0419.C166
Gene No.	112576	Strand	+
Start	662	End	955
Name	OJ990324_03.0419.C166.o1.gs	Method	GENSCAN
Start	662	End	955
GI	none	Score	.63
Exons	662..770, 867..955		
Seq. No.	53485	Seq. ID	OJ990324_03.0419.C166
Gene No.	112577	Strand	+

Start	874	End	1110
Name	OJ990324_03.0419.C166.o2.np	Method	AAT/NAP
Start	874	End	1110
GI	4680186	Score	210
Exons	874..1110		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	53486	Seq. ID	OJ990324_03.0419.C167
Gene No.	112578	Strand	-
Start	441	End	787
Name	OJ990324_03.0419.C167.o1.np	Method	AAT/NAP
Start	441	End	787
GI	2500354	Score	170
Exons	441..586, 683..787		
GI Descrip.	60S RIBOSOMAL PROTEIN L10 (EQM) gi|1902894|dbj|BAA19462| (AB001891) QM family protein [Solanum melongena]		

Seq. No.	53486	Seq. ID	OJ990324_03.0419.C167
Gene No.	112578	Strand	-
Start	441	End	787
Name	OJ990324_03.0419.C167.o1.gp	Method	AAT/GAP
Start	505	End	787
GI	3760334	Score	297
Exons	505..586, 683..787		
GI Descrip.	2500354/sp|P93847|RL10_SOLME 1.0e-35 60S RIBOSOMAL PROTEIN L10 (EQM) >gi_1902894_dbj_BAA19462_ (AB001891) QM family protein [Solanum melongena]		

Seq. No.	53486	Seq. ID	OJ990324_03.0419.C167
Gene No.	112578	Strand	-
Start	441	End	787
Name	OJ990324_03.0419.C167.o1.gs	Method	GENSCAN
Start	505	End	777
GI	none	Score	.7
Exons	505..586, 683..777		

Seq. No.	53487	Seq. ID	OJ990324_03.0419.C172
Gene No.	112579	Strand	+
Start	283	End	802
Name	OJ990324_03.0419.C172.o1.gs	Method	GENSCAN
Start	283	End	802
GI	none	Score	.87
Exons	283..462, 694..802		

Seq. No.	53488	Seq. ID	OJ990324_03.0419.C173
Gene No.	112580	Strand	+
Start	100	End	2076
Name	OJ990324_03.0419.C173.o1.gs	Method	GENSCAN
Start	100	End	2029
GI	none	Score	.68
Exons	100..153, 708..813, 899..954, 1055..1106, 1175..1275, 1884..2029		

Seq. No.	53488	Seq. ID	OJ990324_03.0419.C173
Gene No.	112580	Strand	+
Start	100	End	2076
Name	OJ990324_03.0419.C173.o1.np	Method	AAT/NAP
Start	663	End	2076

GI	3122234	Score	570
Exons	663..813, 899..954, 1055..1106, 1175..1275, 1884..2076		
GI Descrip.	EUKARYOTIC TRANSLATION INITIATION FACTOR 2 BETA SUBUNIT (EIF-2-BETA) (P38) gi|2306768 (U87163) eIF-2 beta subunit [Triticum aestivum]		

Seq. No.	53488	Seq. ID	OJ990324_03.0419.C173
Gene No.	112580	Strand	+
Start	100	End	2076
Name	OJ990324_03.0419.C173.o1.tm	Method	TBLASTX:Maize
Start	683	End	2037
GI	none	Score	115
Exons	683..829, 708..809, 760..810, 904..957, 911..955, 912..956, 1172..1231, 1174..1290, 1221..1274, 1225..1278, 1879..1953, 1881..2030, 1881..2027, 1883..2029, 1987..2037		

Seq. No.	53488	Seq. ID	OJ990324_03.0419.C173
Gene No.	112580	Strand	+
Start	100	End	2076
Name	OJ990324_03.0419.C173.o1.gp	Method	AAT/GAP
Start	696	End	1928
GI	28160_1.R1084	Score	589
Exons	696..810, 896..954, 1055..1106, 1175..1275, 1884..1928		
GI Descrip.	'3122234/sp|O24473|IF2B_WHEAT 2.0e-30 EUKARYOTIC TRANSLATION INITIATION FACTOR 2 BETA SUBUNIT (EIF-2-BETA) (P38) >gi_2306768 (U87163) eIF-2 beta subunit [Triticum aestivum]'		

Seq. No.	53488	Seq. ID	OJ990324_03.0419.C173
Gene No.	112580	Strand	+
Start	100	End	2076
Name	OJ990324_03.0419.C173.o1.ts	Method	TBLASTX:Soybean
Start	708	End	2038
GI	none	Score	56
Exons	708..776, 712..774, 753..812, 770..808, 909..956, 1195..1275, 1231..1278, 1881..2030, 1881..2030, 1883..2038		

Seq. No.	53488	Seq. ID	OJ990324_03.0419.C173
Gene No.	112580	Strand	+
Start	100	End	2076
Name	OJ990324_03.0419.C173.o1.tc	Method	TBLASTX:Cress
Start	1231	End	2038
GI	none	Score	74
Exons	1231..1278, 1872..2030, 1881..2030, 1883..2038		

Seq. No.	53489	Seq. ID	OJ990324_03.0419.C174
Gene No.	112581	Strand	+
Start	400	End	1913
Name	OJ990324_03.0419.C174.o1.gs	Method	GENSCAN
Start	400	End	1913
GI	none	Score	.83
Exons	400..485, 1836..1913		

Seq. No.	53489	Seq. ID	OJ990324_03.0419.C174
Gene No.	112581	Strand	+
Start	400	End	1913
Name	OJ990324_03.0419.C174.o1.np	Method	AAT/NAP
Start	400	End	1910

GI	3122234	Score	219
Exons	400..485, 1836..1910		
GI Descrip.	EUKARYOTIC TRANSLATION INITIATION FACTOR 2 BETA SUBUNIT (EIF-2-BETA) (P38) gi|2306768 (U87163) eIF-2 beta subunit [Triticum aestivum]		

Seq. No.	53490	Seq. ID	OJ990324_03.0419.C175
Gene No.	112582	Strand	+
Start	1	End	813
Name	OJ990324_03.0419.C175.o1.np	Method	AAT/NAP
Start	1	End	147
GI	7485907	Score	214
Exons	1..147		
GI Descrip.	hypothetical protein F21B7.14 - Arabidopsis thaliana gi|2809245|gb|AAB97705.1| (AC002560) F21B7.14 [Arabidopsis thaliana]		

Seq. No.	53490	Seq. ID	OJ990324_03.0419.C175
Gene No.	112582	Strand	+
Start	1	End	813
Name	OJ990324_03.0419.C175.o1.gs	Method	GENSCAN
Start	16	End	813
GI	none	Score	.52
Exons	16..146, 441..813		

Seq. No.	53490	Seq. ID	OJ990324_03.0419.C175
Gene No.	112583	Strand	-
Start	1	End	377
Name	OJ990324_03.0419.C175.o1.gp	Method	AAT/GAP
Start	1	End	377
GI	3266_1.R1084	Score	695
Exons	1..377		
GI Descrip.	'2809245 1.0e-41 (AC002560) F21B7.14 [Arabidopsis thaliana]'		

Seq. No.	53490	Seq. ID	OJ990324_03.0419.C175
Gene No.	112584	Strand	-
Start	1087	End	1553
Name	OJ990324_03.0419.C175.o1.tm	Method	TBLASTX:Maize
Start	1	End	179
GI	none	Score	238
Exons	1..156, 1..147, 3..179		

Seq. No.	53490	Seq. ID	OJ990324_03.0419.C175
Gene No.	112584	Strand	-
Start	1087	End	1553
Name	OJ990324_03.0419.C175.o1.ts	Method	TBLASTX:Soybean
Start	3	End	150
GI	none	Score	229
Exons	3..143, 4..150		

Seq. No.	53490	Seq. ID	OJ990324_03.0419.C175
Gene No.	112584	Strand	-
Start	1087	End	1553
Name	OJ990324_03.0419.C175.o2.gs	Method	GENSCAN
Start	1087	End	1553
GI	none	Score	.99
Exons	1087..1553		

Seq. No.	53491	Seq. ID	OJ990324_03.0419.C176
Gene No.	112585	Strand	+
Start	2882	End	3277
Name	OJ990324_03.0419.C176.o1.gs	Method	GENSCAN
Start	2882	End	3277
GI	none	Score	.79
Exons	2882..3277		

Seq. No.	53492	Seq. ID	OJ990324_03.0419.C179
Gene No.	112586	Strand	+
Start	1	End	1362
Name	OJ990324_03.0419.C179.o1.np	Method	AAT/NAP
Start	1	End	1338
GI	4558666	Score	515
Exons	1..699, 775..1338		
GI Descrip.	(AC007063) putative Na/H antiporter [Arabidopsis thaliana]		

Seq. No.	53492	Seq. ID	OJ990324_03.0419.C179
Gene No.	112586	Strand	+
Start	1	End	1362
Name	OJ990324_03.0419.C179.o1.ts	Method	TBLASTX:Soybean
Start	58	End	356
GI	none	Score	185
Exons	58..351, 90..356		

Seq. No.	53492	Seq. ID	OJ990324_03.0419.C179
Gene No.	112586	Strand	+
Start	1	End	1362
Name	OJ990324_03.0419.C179.o1.gs	Method	GENSCAN
Start	160	End	1362
GI	none	Score	.67
Exons	160..1362		

Seq. No.	53493	Seq. ID	OJ990324_03.0419.C180
Gene No.	112587	Strand	-
Start	1	End	1020
Name	OJ990324_03.0419.C180.o1.gp	Method	AAT/GAP
Start	1	End	775
GI	13564_1.R1084	Score	1410
Exons	1..775		
GI Descrip.	'100226/pir||S21495 7.0e-35 hypothetical protein - tomato >gi_19275_emb_CAA78112_ (Z12127) protein of unknown function [Lycopersicon esculentum] >gi_445619_prf__1909366A Leu zipper protein [Lycopersicon esculentum]'		

Seq. No.	53493	Seq. ID	OJ990324_03.0419.C180
Gene No.	112587	Strand	-
Start	1	End	1020
Name	OJ990324_03.0419.C180.o1.tm	Method	TBLASTX:Maize
Start	168	End	1019
GI	none	Score	795
Exons	168..1019, 177..1019		

Seq. No.	53493	Seq. ID	OJ990324_03.0419.C180
Gene No.	112587	Strand	-
Start	1	End	1020

Name	OJ990324_03.0419.C180.o1.np	Method	AAT/NAP
Start	201	End	1020
GI	100226	Score	594
Exons	201..1020		
GI Descrip.	hypothetical protein - tomato gi|19275|emb|CAA78112| (Z12127) protein of unknown function [Lycopersicon esculentum] gi|445619|prf||1909366A Leu zipper protein [Lycopersicon esculentum]		

Seq. No.	53493	Seq. ID	OJ990324_03.0419.C180
Gene No.	112587	Strand	-
Start	1	End	1020
Name	OJ990324_03.0419.C180.o1.gs	Method	GENSCAN
Start	216	End	968
GI	none	Score	.92
Exons	216..968		

Seq. No.	53493	Seq. ID	OJ990324_03.0419.C180
Gene No.	112587	Strand	-
Start	1	End	1020
Name	OJ990324_03.0419.C180.o1.ts	Method	TBLASTX:Soybean
Start	222	End	776
GI	none	Score	42
Exons	222..290, 300..479, 381..470, 495..773, 528..776		

Seq. No.	53493	Seq. ID	OJ990324_03.0419.C180
Gene No.	112587	Strand	-
Start	1	End	1020
Name	OJ990324_03.0419.C180.o1.tc	Method	TBLASTX:Cress
Start	318	End	995
GI	none	Score	94
Exons	318..455, 513..638, 642..770, 873..995		

Seq. No.	53493	Seq. ID	OJ990324_03.0419.C180
Gene No.	112587	Strand	-
Start	1	End	1020
Name	OJ990324_03.0419.C180.o1.tw	Method	TBLASTX:Wheat
Start	336	End	696
GI	none	Score	376
Exons	336..695, 336..695, 403..696		

Seq. No.	53493	Seq. ID	OJ990324_03.0419.C180
Gene No.	112587	Strand	-
Start	1	End	1020
Name	OJ990324_03.0419.C180.o2.gp	Method	AAT/GAP
Start	747	End	1020
GI	15245_1.R1084	Score	532
Exons	747..1020		
GI Descrip.	'100226/pir||S21495 1.0e-37 hypothetical protein - tomato >gi_19275_emb_CAA78112_ (Z12127) protein of unknown function [Lycopersicon esculentum] >gi_445619_prf__1909366A Leu zipper protein [Lycopersicon esculentum]'		

Seq. No.	53493	Seq. ID	OJ990324_03.0419.C180
Gene No.	112587	Strand	-
Start	1	End	1020
Name	OJ990324_03.0419.C180.o2.ts	Method	TBLASTX:Soybean

Start	822	End	1020
GI	none	Score	116
Exons	822..1010, 828..1019, 847..1020		

Seq. No.	53494	Seq. ID	OJ990324_03.0419.C181
Gene No.	112588	Strand	-
Start	1	End	2335
Name	OJ990324_03.0419.C181.o1.np	Method	AAT/NAP
Start	1	End	1415
GI	100226	Score	905
Exons	1..1105, 1270..1415		
GI Descrip.	hypothetical protein - tomato gi|19275|emb|CAA78112| (Z12127) protein of unknown function [Lycopersicon esculentum] gi|445619|prf||1909366A Leu zipper protein [Lycopersicon esculentum]		

Seq. No.	53494	Seq. ID	OJ990324_03.0419.C181
Gene No.	112588	Strand	-
Start	1	End	2335
Name	OJ990324_03.0419.C181.o1.tm	Method	TBLASTX:Maize
Start	58	End	475
GI	none	Score	522
Exons	58..474, 59..475		

Seq. No.	53494	Seq. ID	OJ990324_03.0419.C181
Gene No.	112588	Strand	-
Start	1	End	2335
Name	OJ990324_03.0419.C181.o1.gp	Method	AAT/GAP
Start	59	End	476
GI	15245_1.R1084	Score	714
Exons	59..476		
GI Descrip.	'100226/pir||S21495 1.0e-37 hypothetical protein - tomato >gi_19275_emb_CAA78112_ (Z12127) protein of unknown function [Lycopersicon esculentum] >gi_445619_prf__1909366A Leu zipper protein [Lycopersicon esculentum]'		

Seq. No.	53494	Seq. ID	OJ990324_03.0419.C181
Gene No.	112588	Strand	-
Start	1	End	2335
Name	OJ990324_03.0419.C181.o1.ts	Method	TBLASTX:Soybean
Start	68	End	291
GI	none	Score	147
Exons	68..235, 70..291		

Seq. No.	53494	Seq. ID	OJ990324_03.0419.C181
Gene No.	112588	Strand	-
Start	1	End	2335
Name	OJ990324_03.0419.C181.o1.gs	Method	GENSCAN
Start	107	End	2335
GI	none	Score	.53
Exons	107..806, 839..1418, 1474..1851, 2195..2335		

Seq. No.	53494	Seq. ID	OJ990324_03.0419.C181
Gene No.	112588	Strand	-
Start	1	End	2335
Name	OJ990324_03.0419.C181.o2.ts	Method	TBLASTX:Soybean
Start	292	End	666

GI	none	Score	228
Exons	292..666		

Seq. No.	53494	Seq. ID	OJ990324_03.0419.C181
Gene No.	112588	Strand	-
Start	1	End	2335
Name	OJ990324_03.0419.C181.o3.tm	Method	TBLASTX:Maize
Start	587	End	789
GI	none	Score	226
Exons	587..787, 589..789, 589..786		

Seq. No.	53494	Seq. ID	OJ990324_03.0419.C181
Gene No.	112588	Strand	-
Start	1	End	2335
Name	OJ990324_03.0419.C181.o2.tm	Method	TBLASTX:Maize
Start	789	End	1091
GI	none	Score	190
Exons	789..1085, 841..1083, 873..1091		

Seq. No.	53494	Seq. ID	OJ990324_03.0419.C181
Gene No.	112588	Strand	-
Start	1	End	2335
Name	OJ990324_03.0419.C181.o2.gp	Method	AAT/GAP
Start	1250	End	1559
GI	69978_1.R1084	Score	580
Exons	1250..1559		
GI Descrip.	'100226/pir||S21495 8.0e-09 hypothetical protein - tomato >gi_19275_emb_CAA78112_ (Z12127) protein of unknown function [Lycopersicon esculentum] >gi_445619_prf__1909366A Leu zipper protein [Lycopersicon esculentum]'		

Seq. No.	53494	Seq. ID	OJ990324_03.0419.C181
Gene No.	112588	Strand	-
Start	1	End	2335
Name	OJ990324_03.0419.C181.o4.tm	Method	TBLASTX:Maize
Start	1275	End	1442
GI	none	Score	113
Exons	1275..1415, 1317..1442		

Seq. No.	53495	Seq. ID	OJ990324_03.0419.C182
Gene No.	112589	Strand	-
Start	272	End	825
Name	OJ990324_03.0419.C182.o1.gp	Method	AAT/GAP
Start	272	End	825
GI	uC-osf1cyp088b12b1	Score	128
Exons	272..296, 725..825		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	53496	Seq. ID	OJ990324_03.0419.C183
Gene No.	112590	Strand	+
Start	722	End	997
Name	OJ990324_03.0419.C183.o1.np	Method	AAT/NAP
Start	722	End	997
GI	7228456	Score	112
Exons	722..997		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	53496	Seq. ID	OJ990324_03.0419.C183
Gene No.	112591	Strand	-
Start	338	End	898
Name	OJ990324_03.0419.C183.o1.gs	Method	GENSCAN
Start	338	End	898
GI	none	Score	.84
Exons	338..455, 681..898		

Seq. No.	53497	Seq. ID	OJ990324_03.0419.C186
Gene No.	112592	Strand	+
Start	1	End	1781
Name	OJ990324_03.0419.C186.o1.gp	Method	AAT/GAP
Start	1	End	369
GI	31417_1.R1084	Score	176
Exons	1..46, 301..369		
GI Descrip.	'3785978 8.0e-28 (AC005560) unknown protein [Arabidopsis thaliana]'		

Seq. No.	53497	Seq. ID	OJ990324_03.0419.C186
Gene No.	112592	Strand	+
Start	1	End	1781
Name	OJ990324_03.0419.C186.o1.np	Method	AAT/NAP
Start	1	End	1367
GI	3785978	Score	463
Exons	1..46, 301..369, 974..1092, 1174..1367		
GI Descrip.	(AC005560) unknown protein [Arabidopsis thaliana]		

Seq. No.	53497	Seq. ID	OJ990324_03.0419.C186
Gene No.	112592	Strand	+
Start	1	End	1781
Name	OJ990324_03.0419.C186.o1.gs	Method	GENSCAN
Start	231	End	1728
GI	none	Score	.84
Exons	231..369, 1415..1559, 1642..1728		

Seq. No.	53497	Seq. ID	OJ990324_03.0419.C186
Gene No.	112592	Strand	+
Start	1	End	1781
Name	OJ990324_03.0419.C186.o1.tm	Method	TBLASTX:Maize
Start	975	End	1548
GI	none	Score	113
Exons	975..1091, 975..1091, 976..1092, 976..1092, 1171..1320, 1173..1319, 1417..1548, 1430..1546		

Seq. No.	53497	Seq. ID	OJ990324_03.0419.C186
Gene No.	112592	Strand	+
Start	1	End	1781
Name	OJ990324_03.0419.C186.o1.ts	Method	TBLASTX:Soybean
Start	1041	End	1732
GI	none	Score	68
Exons	1041..1091, 1042..1092, 1171..1323, 1173..1313, 1414..1569, 1437..1559, 1640..1690, 1645..1725, 1691..1732		

Seq. No.	53497	Seq. ID	OJ990324_03.0419.C186
Gene No.	112592	Strand	+
Start	1	End	1781

Name	OJ990324_03.0419.C186.o2.gp	Method	AAT/GAP
Start	1045	End	1781
GI	13145_2.R1084	Score	703
Exons	1045..1092, 1174..1321, 1415..1559, 1642..1781		
GI Descrip.	'5824665/emb|CAB54355.1| 8.0e-30 (AL110479) predicted using Genefinder; preliminary prediction [Caenorhabditis elegans]'		

Seq. No.	53498	Seq. ID	OJ990324_03.0419.C187
Gene No.	112593	Strand	+
Start	1	End	901
Name	OJ990324_03.0419.C187.o1.gp	Method	AAT/GAP
Start	1	End	901
GI	13145_2.R1084	Score	424
Exons	1..98, 727..901		
GI Descrip.	'5824665/emb|CAB54355.1| 8.0e-30 (AL110479) predicted using Genefinder; preliminary prediction [Caenorhabditis elegans]'		

Seq. No.	53499	Seq. ID	OJ990324_03.0419.C189
Gene No.	112594	Strand	+
Start	58	End	389
Name	OJ990324_03.0419.C189.o1.gp	Method	AAT/GAP
Start	58	End	389
GI	LIB3432-059-P1-K1-D8	Score	605
Exons	58..389		
GI Descrip.	'5734616/dbj|AP000391.1|AP000391 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	53499	Seq. ID	OJ990324_03.0419.C189
Gene No.	112595	Strand	-
Start	1	End	1064
Name	OJ990324_03.0419.C189.o1.np	Method	AAT/NAP
Start	1	End	1043
GI	7488829	Score	292
Exons	1..79, 589..1043		
GI Descrip.	probable Fe(II) transport protein, root - garden pea gi|3153889|gb|AAC17441.1| (AF065444) root iron transporter protein [Pisum sativum]		

Seq. No.	53499	Seq. ID	OJ990324_03.0419.C189
Gene No.	112595	Strand	-
Start	1	End	1064
Name	OJ990324_03.0419.C189.o1.gs	Method	GENSCAN
Start	396	End	1028
GI	none	Score	.94
Exons	396..1028		

Seq. No.	53499	Seq. ID	OJ990324_03.0419.C189
Gene No.	112595	Strand	-
Start	1	End	1064
Name	OJ990324_03.0419.C189.o2.gp	Method	AAT/GAP
Start	608	End	1064
GI	21719_1.R1084	Score	854
Exons	608..1064		
GI Descrip.	'4836773/gb|AAD30549.1|AF136580_1 2.0e-24 (AF136580) iron-regulated transporter 2 [Lycopersicon esculentum]'		

Seq. No.	53499	Seq. ID	OJ990324_03.0419.C189

Gene No.	112595	Strand	-
Start	1	End	1064
Name	OJ990324_03.0419.C189.o1.ts	Method	TBLASTX:Soybean
Start	640	End	962
GI	none	Score	141
Exons	640..900, 675..962		

Seq. No.	53499	Seq. ID	OJ990324_03.0419.C189
Gene No.	112595	Strand	-
Start	1	End	1064
Name	OJ990324_03.0419.C189.o1.tc	Method	TBLASTX:Cress
Start	690	End	959
GI	none	Score	129
Exons	690..959, 691..957		

Seq. No.	53499	Seq. ID	OJ990324_03.0419.C189
Gene No.	112595	Strand	-
Start	1	End	1064
Name	OJ990324_03.0419.C189.o1.tm	Method	TBLASTX:Maize
Start	708	End	929
GI	none	Score	158
Exons	708..929, 712..909		

Seq. No.	53500	Seq. ID	OJ990624_05.0419.C2
Gene No.	112596	Strand	-
Start	377	End	1051
Name	OJ990624_05.0419.C2.o2.gs	Method	GENSCAN
Start	377	End	1051
GI	none	Score	.96
Exons	377..1051		

Seq. No.	53501	Seq. ID	OJ990624_05.0419.C4
Gene No.	112597	Strand	-
Start	744	End	1686
Name	OJ990624_05.0419.C4.o1.np	Method	AAT/NAP
Start	744	End	1686
GI	6063554	Score	126
Exons	744..917, 1640..1686		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53502	Seq. ID	OJ990624_05.0419.C5
Gene No.	112598	Strand	-
Start	177	End	759
Name	OJ990624_05.0419.C5.o1.gs	Method	GENSCAN
Start	177	End	759
GI	none	Score	.65
Exons	177..230, 715..759		

Seq. No.	53503	Seq. ID	OJ990624_05.0419.C8
Gene No.	112599	Strand	+
Start	146	End	918
Name	OJ990624_05.0419.C8.o1.np	Method	AAT/NAP
Start	146	End	918
GI	6705984	Score	408
Exons	146..641, 840..918		

GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		
Seq. No.	53503	Seq. ID	OJ990624_05.0419.C8
Gene No.	112599	Strand	+
Start	146	End	918
Name	OJ990624_05.0419.C8.o1.tw	Method	TBLASTX:Wheat
Start	167	End	630
GI	none	Score	268
Exons	167..436, 179..442, 187..441, 466..630	441..527, 446..625, 455..625,	
Seq. No.	53503	Seq. ID	OJ990624_05.0419.C8
Gene No.	112599	Strand	+
Start	146	End	918
Name	OJ990624_05.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	218	End	637
GI	none	Score	154
Exons	218..487, 287..487, 479..637,	496..600	
Seq. No.	53503	Seq. ID	OJ990624_05.0419.C8
Gene No.	112599	Strand	+
Start	146	End	918
Name	OJ990624_05.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	406	End	664
GI	none	Score	183
Exons	406..540, 407..664, 449..652		
Seq. No.	53504	Seq. ID	OJ990624_05.0419.C9
Gene No.	112600	Strand	+
Start	1	End	2012
Name	OJ990624_05.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	2012
GI	6498436	Score	443
Exons	1..494, 594..718, 962..1141,	1588..1640, 1871..2012	
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		
Seq. No.	53504	Seq. ID	OJ990624_05.0419.C9
Gene No.	112600	Strand	+
Start	1	End	2012
Name	OJ990624_05.0419.C9.o1.gs	Method	GENSCAN
Start	410	End	1640
GI	none	Score	.59
Exons	410..718, 991..1141, 1426..1640		
Seq. No.	53504	Seq. ID	OJ990624_05.0419.C9
Gene No.	112601	Strand	-
Start	1867	End	2019
Name	OJ990624_05.0419.C9.o2.gs	Method	GENSCAN
Start	1867	End	2019
GI	none	Score	.53
Exons	1867..2019		
Seq. No.	53505	Seq. ID	OJ990624_05.0419.C15
Gene No.	112602	Strand	+
Start	1	End	966
Name	OJ990624_05.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	922

GI	5852180	Score	463
Exons	1..123, 327..450, 502..922		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	53505	Seq. ID	OJ990624_05.0419.C15
Gene No.	112602	Strand	+
Start	1	End	966
Name	OJ990624_05.0419.C15.o1.gs	Method	GENSCAN
Start	495	End	966
GI	none	Score	.63
Exons	495..714, 749..966		

Seq. No.	53506	Seq. ID	OJ990624_05.0419.C16
Gene No.	112603	Strand	-
Start	87	End	978
Name	OJ990624_05.0419.C16.o1.np	Method	AAT/NAP
Start	87	End	978
GI	5852178	Score	491
Exons	87..182, 541..644, 676..978		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	53507	Seq. ID	OJ990624_05.0419.C17
Gene No.	112604	Strand	+
Start	1	End	903
Name	OJ990624_05.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	903
GI	5042454	Score	215
Exons	1..248, 817..903		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	53508	Seq. ID	OJ990624_05.0419.C18
Gene No.	112605	Strand	+
Start	1	End	1365
Name	OJ990624_05.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	639
GI	5852178	Score	224
Exons	1..45, 77..180, 544..639		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	53508	Seq. ID	OJ990624_05.0419.C18
Gene No.	112605	Strand	+
Start	1	End	1365
Name	OJ990624_05.0419.C18.o2.np	Method	AAT/NAP
Start	1	End	1365
GI	6063554	Score	158
Exons	1..76, 1193..1365		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53508	Seq. ID	OJ990624_05.0419.C18
Gene No.	112606	Strand	-
Start	44	End	1526
Name	OJ990624_05.0419.C18.o1.gs	Method	GENSCAN
Start	44	End	1526
GI	none	Score	.43
Exons	44..259, 1097..1220, 1451..1526		

Seq. No.	53509	Seq. ID	OJ990624_05.0419.C19
Gene No.	112607	Strand	-
Start	11	End	438
Name	OJ990624_05.0419.C19.o1.gs	Method	GENSCAN
Start	11	End	438
GI	none	Score	.45
Exons	11..438		

Seq. No.	53510	Seq. ID	OJ990624_05.0419.C21
Gene No.	112608	Strand	+
Start	83	End	1027
Name	OJ990624_05.0419.C21.o1.gs	Method	GENSCAN
Start	83	End	1027
GI	none	Score	.43
Exons	83..142, 911..1027		

Seq. No.	53511	Seq. ID	OJ990624_05.0419.C22
Gene No.	112609	Strand	+
Start	1	End	773
Name	OJ990624_05.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	773
GI	7228457	Score	463
Exons	1..231, 286..773		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	53511	Seq. ID	OJ990624_05.0419.C22
Gene No.	112609	Strand	+
Start	1	End	773
Name	OJ990624_05.0419.C22.o1.gs	Method	GENSCAN
Start	124	End	354
GI	none	Score	.4
Exons	124..354		

Seq. No.	53511	Seq. ID	OJ990624_05.0419.C22
Gene No.	112609	Strand	+
Start	1	End	773
Name	OJ990624_05.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	328	End	675
GI	none	Score	209
Exons	328..558, 348..488, 554..670, 565..675		

Seq. No.	53511	Seq. ID	OJ990624_05.0419.C22
Gene No.	112609	Strand	+
Start	1	End	773
Name	OJ990624_05.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	540	End	772
GI	none	Score	89
Exons	540..731, 562..744, 563..772		

Seq. No.	53512	Seq. ID	OJ990624_05.0419.C23
Gene No.	112610	Strand	-
Start	1	End	868
Name	OJ990624_05.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	868

GI	7444451	Score	1115
Exons	1..868		
GI Descrip.	probable gag/pol polyprotein - long-staminate rice retrotransposon retrofit gi|2586082|gb|AAB82754.1| (U72725) retrofit [Oryza longistaminata]		

Seq. No.	53512	Seq. ID	OJ990624_05.0419.C23
Gene No.	112610	Strand	-
Start	1	End	868
Name	OJ990624_05.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	73	End	495
GI	none	Score	82
Exons	73..495, 320..472		

Seq. No.	53512	Seq. ID	OJ990624_05.0419.C23
Gene No.	112610	Strand	-
Start	1	End	868
Name	OJ990624_05.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	88	End	628
GI	none	Score	82
Exons	88..291, 283..627, 320..469, 494..628		

Seq. No.	53512	Seq. ID	OJ990624_05.0419.C23
Gene No.	112610	Strand	-
Start	1	End	868
Name	OJ990624_05.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	307	End	864
GI	5509260	Score	108
Exons	307..864, 320..469, 509..673		
GI Descrip.	-		

Seq. No.	53512	Seq. ID	OJ990624_05.0419.C23
Gene No.	112610	Strand	-
Start	1	End	868
Name	OJ990624_05.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	409	End	679
GI	none	Score	167
Exons	409..678, 410..679		

Seq. No.	53512	Seq. ID	OJ990624_05.0419.C23
Gene No.	112610	Strand	-
Start	1	End	868
Name	OJ990624_05.0419.C23.o1.gs	Method	GENSCAN
Start	472	End	797
GI	none	Score	.48
Exons	472..797		

Seq. No.	53512	Seq. ID	OJ990624_05.0419.C23
Gene No.	112610	Strand	-
Start	1	End	868
Name	OJ990624_05.0419.C23.o2.tm	Method	TBLASTX:Maize
Start	496	End	748
GI	none	Score	139
Exons	496..747, 497..748		

Seq. No.	53513	Seq. ID	OJ990624_05.0419.C24
Gene No.	112611	Strand	+

Start	1	End	1374
Name	OJ990624_05.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	1374
GI	6705984	Score	582
Exons	1..724, 1339..1374		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	53513	Seq. ID	OJ990624_05.0419.C24
Gene No.	112611	Strand	+
Start	1	End	1374
Name	OJ990624_05.0419.C24.o1.gs	Method	GENSCAN
Start	175	End	1203
GI	none	Score	.44
Exons	175..428, 1010..1203		

Seq. No.	53513	Seq. ID	OJ990624_05.0419.C24
Gene No.	112612	Strand	-
Start	1	End	1374
Name	OJ990624_05.0419.C24.o2.np	Method	AAT/NAP
Start	1	End	1374
GI	7523517	Score	125
Exons	1..50, 575..778, 929..1071, 1346..1374		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	53513	Seq. ID	OJ990624_05.0419.C24
Gene No.	112612	Strand	-
Start	1	End	1374
Name	OJ990624_05.0419.C24.o1.tw	Method	TBLASTX:Wheat
Start	278	End	748
GI	none	Score	274
Exons	278..559, 325..534, 565..606, 566..619, 609..674, 623..676, 638..748		

Seq. No.	53513	Seq. ID	OJ990624_05.0419.C24
Gene No.	112612	Strand	-
Start	1	End	1374
Name	OJ990624_05.0419.C24.o1.ts	Method	TBLASTX:Soybean
Start	364	End	698
GI	none	Score	175
Exons	364..618, 371..619, 609..698		

Seq. No.	53513	Seq. ID	OJ990624_05.0419.C24
Gene No.	112612	Strand	-
Start	1	End	1374
Name	OJ990624_05.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	515	End	724
GI	none	Score	115
Exons	515..619, 520..618, 609..686, 674..724		

Seq. No.	53514	Seq. ID	OJ990624_05.0419.C27
Gene No.	112613	Strand	-
Start	1	End	392
Name	OJ990624_05.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	392
GI	7340881	Score	73
Exons	1..79, 131..166, 272..392		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	53515	Seq. ID	OJ990624_05.0419.C31
Gene No.	112614	Strand	-
Start	1	End	2398
Name	OJ990624_05.0419.C31.o1.np	Method	AAT/NAP
Start	1	End	2398
GI	5902444	Score	867
Exons	1..1386, 1624..1681, 1781..2398		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	53515	Seq. ID	OJ990624_05.0419.C31
Gene No.	112614	Strand	-
Start	1	End	2398
Name	OJ990624_05.0419.C31.o1.tw	Method	TBLASTX:Wheat
Start	2	End	373
GI	none	Score	110
Exons	2..154, 3..152, 200..373, 201..365		

Seq. No.	53515	Seq. ID	OJ990624_05.0419.C31
Gene No.	112614	Strand	-
Start	1	End	2398
Name	OJ990624_05.0419.C31.o1.gs	Method	GENSCAN
Start	18	End	2140
GI	none	Score	.64
Exons	18..298, 578..850, 965..1152, 1359..1939, 1979..2140		

Seq. No.	53515	Seq. ID	OJ990624_05.0419.C31
Gene No.	112614	Strand	-
Start	1	End	2398
Name	OJ990624_05.0419.C31.o2.tw	Method	TBLASTX:Wheat
Start	1004	End	1351
GI	none	Score	78
Exons	1004..1258, 1062..1259, 1238..1351, 1248..1340		

Seq. No.	53516	Seq. ID	OJ990624_05.0419.C34
Gene No.	112615	Strand	+
Start	736	End	887
Name	OJ990624_05.0419.C34.o1.gs	Method	GENSCAN
Start	736	End	887
GI	none	Score	.5
Exons	736..887		

Seq. No.	53516	Seq. ID	OJ990624_05.0419.C34
Gene No.	112616	Strand	-
Start	1212	End	1325
Name	OJ990624_05.0419.C34.o2.gs	Method	GENSCAN
Start	1212	End	1325
GI	none	Score	1
Exons	1212..1325		

Seq. No.	53517	Seq. ID	OJ990624_05.0419.C38
Gene No.	112617	Strand	+
Start	237	End	618
Name	OJ990624_05.0419.C38.o1.gp	Method	AAT/GAP
Start	237	End	618
GI	uC-osflcyp033a04b1	Score	663
Exons	237..618		

GI Descrip. '6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'

Seq. No.	53517	Seq. ID	OJ990624_05.0419.C38
Gene No.	112618	Strand	-
Start	170	End	1390
Name	OJ990624_05.0419.C38.o1.np	Method	AAT/NAP
Start	170	End	1265
GI	4680186	Score	379
Exons	170..370, 1209..1265		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	53517	Seq. ID	OJ990624_05.0419.C38
Gene No.	112618	Strand	-
Start	170	End	1390
Name	OJ990624_05.0419.C38.o1.gs	Method	GENSCAN
Start	217	End	1390
GI	none	Score	.45
Exons	217..370, 1253..1390		

Seq. No.	53518	Seq. ID	OJ990624_05.0419.C40
Gene No.	112619	Strand	+
Start	1191	End	1867
Name	OJ990624_05.0419.C40.o1.np	Method	AAT/NAP
Start	1191	End	1867
GI	7444442	Score	718
Exons	1191..1867		
GI Descrip.	gag/pol polyprotein - maize retrotransposon Hopscotch gi|531389|gb|AAA57005.1| (U12626) copia-like retrotransposon Hopscotch polyprotein [Zea mays]		

Seq. No.	53518	Seq. ID	OJ990624_05.0419.C40
Gene No.	112620	Strand	-
Start	326	End	1211
Name	OJ990624_05.0419.C40.o1.gs	Method	GENSCAN
Start	326	End	1211
GI	none	Score	.86
Exons	326..506, 987..1211		

Seq. No.	53518	Seq. ID	OJ990624_05.0419.C40
Gene No.	112621	Strand	
Start	1410	End	1865
Name	OJ990624_05.0419.C40.o1.tw	Method	TBLASTX:Wheat
Start	1410	End	1799
GI	none	Score	132
Exons	1410..1583, 1608..1799		

Seq. No.	53518	Seq. ID	OJ990624_05.0419.C40
Gene No.	112621	Strand	
Start	1410	End	1865
Name	OJ990624_05.0419.C40.o1.ts	Method	TBLASTX:Soybean
Start	1571	End	1787
GI	none	Score	208
Exons	1571..1786, 1572..1787		

Seq. No.	53518	Seq. ID	OJ990624_05.0419.C40
Gene No.	112621	Strand	

Start	1410	End	1865
Name	OJ990624_05.0419.C40.o1.tc	Method	TBLASTX:Cress
Start	1587	End	1865
GI	none	Score	183
Exons	1587..1865		

Seq. No.	53519	Seq. ID	OJ990624_06.0419.C3
Gene No.	112622	Strand	-
Start	332	End	485
Name	OJ990624_06.0419.C3.o1.gs	Method	GENSCAN
Start	332	End	485
GI	none	Score	.4
Exons	332..485		

Seq. No.	53520	Seq. ID	OJ990624_06.0419.C4
Gene No.	112623	Strand	+
Start	1	End	153
Name	OJ990624_06.0419.C4.o1.gp	Method	AAT/GAP
Start	1	End	153
GI	44056_1.R1084	Score	293
Exons	1..153		
GI Descrip.	'5803242/dbj|AP000399.1|AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		

Seq. No.	53520	Seq. ID	OJ990624_06.0419.C4
Gene No.	112624	Strand	+
Start	892	End	1133
Name	OJ990624_06.0419.C4.o2.gp	Method	AAT/GAP
Start	892	End	1133
GI	2312791	Score	266
Exons	892..960, 1054..1133		

Seq. No.	53520	Seq. ID	OJ990624_06.0419.C4
Gene No.	112625	Strand	-
Start	210	End	473
Name	OJ990624_06.0419.C4.o1.gs	Method	GENSCAN
Start	210	End	473
GI	none	Score	.69
Exons	210..473		

Seq. No.	53521	Seq. ID	OJ990624_06.0419.C7
Gene No.	112626	Strand	+
Start	88	End	1174
Name	OJ990624_06.0419.C7.o1.np	Method	AAT/NAP
Start	88	End	1174
GI	6907089	Score	1826
Exons	88..1174		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	53521	Seq. ID	OJ990624_06.0419.C7
Gene No.	112627	Strand	-
Start	43	End	1118
Name	OJ990624_06.0419.C7.o1.gs	Method	GENSCAN
Start	43	End	1118
GI	none	Score	.8
Exons	43..213, 394..488, 976..1118		

Seq. No.	53522	Seq. ID	OJ990624_06.0419.C10
Gene No.	112628	Strand	-
Start	1	End	732
Name	OJ990624_06.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	732
GI	4680186	Score	170
Exons	1..37, 80..314, 713..732		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	53523	Seq. ID	OJ990624_06.0419.C23
Gene No.	112629	Strand	-
Start	320	End	402
Name	OJ990624_06.0419.C23.o1.gs	Method	GENSCAN
Start	320	End	402
GI	none	Score	.57
Exons	320..402		

Seq. No.	53524	Seq. ID	OJ990624_06.0419.C28
Gene No.	112630	Strand	+
Start	434	End	559
Name	OJ990624_06.0419.C28.o1.gp	Method	AAT/GAP
Start	434	End	559
GI	2428323	Score	209
Exons	434..559		
GI Descrip.	5803242/dbj|AP000399.1|AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04		

Seq. No.	53524	Seq. ID	OJ990624_06.0419.C28
Gene No.	112631	Strand	-
Start	1	End	717
Name	OJ990624_06.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	717
GI	7228457	Score	667
Exons	1..433, 663..717		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	53524	Seq. ID	OJ990624_06.0419.C28
Gene No.	112631	Strand	-
Start	1	End	717
Name	OJ990624_06.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	6	End	179
GI	none	Score	110
Exons	6..179, 7..171		

Seq. No.	53524	Seq. ID	OJ990624_06.0419.C28
Gene No.	112631	Strand	-
Start	1	End	717
Name	OJ990624_06.0419.C28.o1.tw	Method	TBLASTX:Wheat
Start	7	End	185
GI	none	Score	99
Exons	7..162, 18..185		

Seq. No.	53525	Seq. ID	OJ990714_09.0419.C7
Gene No.	112632	Strand	+
Start	66	End	212

Name	OJ990714_09.0419.C7.o1.gs	Method	GENSCAN
Start	66	End	212
GI	none	Score	.87
Exons	66..212		

Seq. No.	53526	Seq. ID	OJ990714_09.0419.C13
Gene No.	112633	Strand	+
Start	1	End	1392
Name	OJ990714_09.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	916
GI	7485482	Score	265
Exons	1..29, 106..151, 234..356, 483..521, 782..916		
GI Descrip.	hypothetical protein F14M19.150 - Arabidopsis thaliana gi|4539305|emb|CAB39608.1| (AL049480) putative protein [Arabidopsis thaliana] gi|7269438|emb|CAB79442.1| (AL161564) putative protein [Arabidopsis thaliana]		

Seq. No.	53526	Seq. ID	OJ990714_09.0419.C13
Gene No.	112633	Strand	+
Start	1	End	1392
Name	OJ990714_09.0419.C13.o1.gs	Method	GENSCAN
Start	59	End	1392
GI	none	Score	.49
Exons	59..151, 234..356, 1222..1392		

Seq. No.	53526	Seq. ID	OJ990714_09.0419.C13
Gene No.	112633	Strand	+
Start	1	End	1392
Name	OJ990714_09.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	89	End	922
GI	none	Score	129
Exons	89..154, 91..150, 227..373, 234..356, 465..521, 482..520, 777..893, 782..919, 784..897, 803..922		

Seq. No.	53526	Seq. ID	OJ990714_09.0419.C13
Gene No.	112633	Strand	+
Start	1	End	1392
Name	OJ990714_09.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	110	End	928
GI	none	Score	69
Exons	110..145, 110..145, 233..331, 234..356, 465..518, 790..906, 791..928		

Seq. No.	53527	Seq. ID	OJ990714_09.0419.C15
Gene No.	112634	Strand	-
Start	1	End	1589
Name	OJ990714_09.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	1589
GI	7485840	Score	687
Exons	1..137, 234..299, 404..454, 547..670, 789..906, 1046..1190, 1274..1371, 1473..1589		
GI Descrip.	hypothetical protein F20B18.50 - Arabidopsis thaliana gi|4538923|emb|CAB39659.1| (AL049483) predicted protein destination factor [Arabidopsis thaliana] gi|7269445|emb|CAB79449.1| (AL161564) predicted protein destination factor [Arabidopsis thaliana]		

Seq. No.	53527	Seq. ID	OJ990714_09.0419.C15
Gene No.	112634	Strand	-
Start	1	End	1589
Name	OJ990714_09.0419.C15.o1.gs	Method	GENSCAN
Start	72	End	1542
GI	none	Score	.92
Exons	72..137, 547..576, 782..906, 1046..1190, 1274..1371, 1473..1542		

Seq. No.	53528	Seq. ID	OJ990714_09.0419.C16
Gene No.	112635	Strand	-
Start	397	End	2008
Name	OJ990714_09.0419.C16.o1.gs	Method	GENSCAN
Start	397	End	1810
GI	none	Score	.81
Exons	397..505, 1028..1077, 1288..1810		

Seq. No.	53528	Seq. ID	OJ990714_09.0419.C16
Gene No.	112635	Strand	-
Start	397	End	2008
Name	OJ990714_09.0419.C16.o1.np	Method	AAT/NAP
Start	1318	End	2008
GI	3927835	Score	749
Exons	1318..1810, 1908..2008		
GI Descrip.	(AC005727) putative para-aminobenzoate synthase and glutamine amidotransferase, a bifunctional enzyme [Arabidopsis thaliana]		

Seq. No.	53528	Seq. ID	OJ990714_09.0419.C16
Gene No.	112635	Strand	-
Start	397	End	2008
Name	OJ990714_09.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	1459	End	1984
GI	none	Score	137
Exons	1459..1815, 1514..1816, 1916..1984		

Seq. No.	53528	Seq. ID	OJ990714_09.0419.C16
Gene No.	112635	Strand	-
Start	397	End	2008
Name	OJ990714_09.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	1597	End	1984
GI	none	Score	67
Exons	1597..1815, 1916..1984		

Seq. No.	53529	Seq. ID	OJ990714_09.0419.C19
Gene No.	112636	Strand	+
Start	799	End	869
Name	OJ990714_09.0419.C19.o1.gp	Method	AAT/GAP
Start	799	End	869
GI	uC-osflcyp057d06b1	Score	95
Exons	799..869		
GI Descrip.	'5051789/emb|CAB45082.1| 7.0e-18 (AL078637) putative protein [Arabidopsis thaliana]'		

Seq. No.	53529	Seq. ID	OJ990714_09.0419.C19
Gene No.	112637	Strand	+
Start	801	End	869
Name	OJ990714_09.0419.C19.o1.gs	Method	GENSCAN
Start	801	End	869

GI	none	Score	.92
Exons	801..869		

Seq. No.	53530	Seq. ID	OJ990714_09.0419.C23
Gene No.	112638	Strand	+
Start	406	End	464
Name	OJ990714_09.0419.C23.o1.gs	Method	GENSCAN
Start	406	End	464
GI	none	Score	.48
Exons	406..464		

Seq. No.	53531	Seq. ID	OJ990714_09.0419.C24
Gene No.	112639	Strand	-
Start	1	End	744
Name	OJ990714_09.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	744
GI	3927835	Score	175
Exons	1..267, 363..429, 617..744		
GI Descrip.	(AC005727) putative para-aminobenzoate synthase and glutamine amidotransferase, a bifunctional enzyme [Arabidopsis thaliana]		

Seq. No.	53531	Seq. ID	OJ990714_09.0419.C24
Gene No.	112639	Strand	-
Start	1	End	744
Name	OJ990714_09.0419.C24.o1.gs	Method	GENSCAN
Start	48	End	681
GI	none	Score	.82
Exons	48..267, 363..429, 617..681		

Seq. No.	53532	Seq. ID	OJ990714_09.0419.C25
Gene No.	112640	Strand	-
Start	105	End	209
Name	OJ990714_09.0419.C25.o1.gs	Method	GENSCAN
Start	105	End	209
GI	none	Score	.94
Exons	105..209		

Seq. No.	53533	Seq. ID	OJ990714_09.0419.C26
Gene No.	112641	Strand	-
Start	1	End	1193
Name	OJ990714_09.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	1193
GI	7487328	Score	83
Exons	1..159, 847..959, 1159..1193		
GI Descrip.	hypothetical protein T22A6.300 - Arabidopsis thaliana gi|5051789|emb|CAB45082.1| (AL078637) putative protein [Arabidopsis thaliana] gi|7269297|emb|CAB79357.1| (AL161561) putative protein [Arabidopsis thaliana]		

Seq. No.	53533	Seq. ID	OJ990714_09.0419.C26
Gene No.	112641	Strand	-
Start	1	End	1193
Name	OJ990714_09.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	28	End	1155
GI	none	Score	89
Exons	28..114, 29..106, 30..107, 84..161, 102..161, 107..163, 838..960, 843..971, 846..971, 1114..1155		

Seq. No.	53533	Seq. ID	OJ990714_09.0419.C26
Gene No.	112641	Strand	-
Start	1	End	1193
Name	OJ990714_09.0419.C26.o1.gs	Method	GENSCAN
Start	31	End	959
GI	none	Score	.86
Exons	31..159, 847..959		

Seq. No.	53533	Seq. ID	OJ990714_09.0419.C26
Gene No.	112641	Strand	-
Start	1	End	1193
Name	OJ990714_09.0419.C26.o1.gp	Method	AAT/GAP
Start	80	End	1193
GI	53585_1.R1084	Score	481
Exons	80..159, 847..959, 1069..1193		
GI Descrip.	'5051789/emb|CAB45082.1| 3.0e-16 (AL078637) putative protein [Arabidopsis thaliana]'		

Seq. No.	53534	Seq. ID	OJ990714_09.0419.C33
Gene No.	112642	Strand	+
Start	1	End	1506
Name	OJ990714_09.0419.C33.o1.np	Method	AAT/NAP
Start	1	End	1506
GI	5231014	Score	742
Exons	1..1506		
GI Descrip.	(AF122982) NBS/LRR disease resistance protein RPM1 [Arabidopsis lyrata]		

Seq. No.	53534	Seq. ID	OJ990714_09.0419.C33
Gene No.	112642	Strand	+
Start	1	End	1506
Name	OJ990714_09.0419.C33.o1.tc	Method	TBLASTX:Cress
Start	119	End	1110
GI	none	Score	103
Exons	119..304, 396..431, 629..757, 761..919, 952..1110		

Seq. No.	53534	Seq. ID	OJ990714_09.0419.C33
Gene No.	112642	Strand	+
Start	1	End	1506
Name	OJ990714_09.0419.C33.o1.ts	Method	TBLASTX:Soybean
Start	467	End	1113
GI	none	Score	84
Exons	467..604, 623..742, 800..919, 901..957, 952..1113		

Seq. No.	53534	Seq. ID	OJ990714_09.0419.C33
Gene No.	112642	Strand	+
Start	1	End	1506
Name	OJ990714_09.0419.C33.o1.tw	Method	TBLASTX:Wheat
Start	623	End	926
GI	none	Score	269
Exons	623..913, 655..825, 894..926, 895..924		

Seq. No.	53534	Seq. ID	OJ990714_09.0419.C33
Gene No.	112642	Strand	+
Start	1	End	1506
Name	OJ990714_09.0419.C33.o1.tm	Method	TBLASTX:Maize

Start	778	End	999
GI	none	Score	193
Exons	778..831, 779..910, 779..886, 898..999	890..973, 894..983, 895..999,	

Seq. No.	53535	Seq. ID	OJ990714_09.0419.C34
Gene No.	112643	Strand	-
Start	345	End	1107
Name	OJ990714_09.0419.C34.o1.tm	Method	TBLASTX:Maize
Start	240	End	1106
GI	none	Score	40
Exons	240..284, 246..284, 248..289, 343..747, 343..633, 345..803, 868..945, 869..964, 871..945,	268..288, 314..487, 315..488, 531..758, 617..784, 867..944, 943..1104, 944..1105, 975..1106	

Seq. No.	53535	Seq. ID	OJ990714_09.0419.C34
Gene No.	112643	Strand	-
Start	345	End	1107
Name	OJ990714_09.0419.C34.o1.gs	Method	GENSCAN
Start	345	End	1003
GI	none	Score	.61
Exons	345..760, 869..1003		

Seq. No.	53535	Seq. ID	OJ990714_09.0419.C34
Gene No.	112643	Strand	-
Start	345	End	1107
Name	OJ990714_09.0419.C34.o1.np	Method	AAT/NAP
Start	345	End	1107
GI	7435669	Score	605
Exons	345..760, 869..1107		
GI Descrip.	serine proteinase homolog F6G3.50 - Arabidopsis thaliana gi|4938478|emb|CAB43837.1| (AL078464) proteinase-like protein [Arabidopsis thaliana] gi|7269902|emb|CAB80995.1| (AL161576) EST GB:N37377 spans last intron and 3' end of gene; strong similarity to Lycopersicon esculentum proteinase TMP, Pir2:T07617; Contains Growth factor and cytokines receptors family signatures AA570		

Seq. No.	53535	Seq. ID	OJ990714_09.0419.C34
Gene No.	112643	Strand	-
Start	345	End	1107
Name	OJ990714_09.0419.C34.o1.tc	Method	TBLASTX:Cress
Start	348	End	908
GI	none	Score	205
Exons	348..656, 355..642, 702..758,	870..908	

Seq. No.	53535	Seq. ID	OJ990714_09.0419.C34
Gene No.	112643	Strand	-
Start	345	End	1107
Name	OJ990714_09.0419.C34.o1.ts	Method	TBLASTX:Soybean
Start	348	End	779
GI	none	Score	131
Exons	348..566, 355..567, 561..653,	702..779	

Seq. No.	53535	Seq. ID	OJ990714_09.0419.C34
Gene No.	112643	Strand	-
Start	345	End	1107

Name	OJ990714_09.0419.C34.o2.ts	Method	TBLASTX:Soybean
Start	873	End	1105
GI	none	Score	55
Exons	873..968, 880..945, 986..1105		

Seq. No.	53535	Seq. ID	OJ990714_09.0419.C34
Gene No.	112643	Strand	-
Start	345	End	1107
Name	OJ990714_09.0419.C34.o1.gp	Method	AAT/GAP
Start	946	End	1107
GI	3106804	Score	316
Exons	946..1107		
GI Descrip.	4938478/emb|CAB43837.1| 6.0e-48 (AL078464) proteinase-like protein [Arabidopsis thaliana]		

Seq. No.	53535	Seq. ID	OJ990714_09.0419.C34
Gene No.	112643	Strand	-
Start	345	End	1107
Name	OJ990714_09.0419.C34.o1.tw	Method	TBLASTX:Wheat
Start	992	End	1106
GI	none	Score	175
Exons	992..1105, 993..1106		

Seq. No.	53536	Seq. ID	OJ990714_09.0419.C39
Gene No.	112644	Strand	-
Start	22	End	814
Name	OJ990714_09.0419.C39.o1.gp	Method	AAT/GAP
Start	22	End	814
GI	969_1.R1084	Score	1552
Exons	22..814		
GI Descrip.	'2499614/sp|Q40517|NTF3_TOBAC 1.0e-179 MITOGEN-ACTIVATED PROTEIN KINASE HOMOLOG NTF3 (P43) >gi_481830_pir__S39559 mitogen-activated protein kinase 3 homolog ntf3 - common tobacco >gi_406751_emb_CAA49592_ (X69971) NTF3 [Nicotiana tabacum]'		

Seq. No.	53536	Seq. ID	OJ990714_09.0419.C39
Gene No.	112644	Strand	-
Start	22	End	814
Name	OJ990714_09.0419.C39.o1.tm	Method	TBLASTX:Maize
Start	344	End	813
GI	none	Score	403
Exons	344..751, 345..809, 345..812, 421..813		

Seq. No.	53536	Seq. ID	OJ990714_09.0419.C39
Gene No.	112644	Strand	-
Start	22	End	814
Name	OJ990714_09.0419.C39.o1.gs	Method	GENSCAN
Start	345	End	698
GI	none	Score	.83
Exons	345..698		

Seq. No.	53536	Seq. ID	OJ990714_09.0419.C39
Gene No.	112644	Strand	-
Start	22	End	814
Name	OJ990714_09.0419.C39.o1.np	Method	AAT/NAP
Start	348	End	814
GI	6491800	Score	800

Exons	348..814		
GI Descrip.	(AJ251330) MAPK4 protein [Oryza sativa]		
Seq. No.	53536	Seq. ID	OJ990714_09.0419.C39
Gene No.	112644	Strand	-
Start	22	End	814
Name	OJ990714_09.0419.C39.o1.ts	Method	TBLASTX:Soybean
Start	360	End	813
GI	none	Score	181
Exons	360..713, 411..710, 421..714, 714..812, 718..813		
Seq. No.	53536	Seq. ID	OJ990714_09.0419.C39
Gene No.	112644	Strand	-
Start	22	End	814
Name	OJ990714_09.0419.C39.o1.tc	Method	TBLASTX:Cress
Start	366	End	813
GI	none	Score	260
Exons	366..809, 369..812, 433..813		
Seq. No.	53536	Seq. ID	OJ990714_09.0419.C39
Gene No.	112644	Strand	-
Start	22	End	814
Name	OJ990714_09.0419.C39.o1.tw	Method	TBLASTX:Wheat
Start	432	End	734
GI	none	Score	53
Exons	432..581, 505..582, 624..734		
Seq. No.	53537	Seq. ID	OJ990714_09.0419.C40
Gene No.	112645	Strand	-
Start	678	End	792
Name	OJ990714_09.0419.C40.o1.ts	Method	TBLASTX:Soybean
Start	643	End	792
GI	none	Score	110
Exons	643..792, 675..788		
Seq. No.	53537	Seq. ID	OJ990714_09.0419.C40
Gene No.	112645	Strand	-
Start	678	End	792
Name	OJ990714_09.0419.C40.o1.tc	Method	TBLASTX:Cress
Start	675	End	792
GI	none	Score	103
Exons	675..791, 685..792		
Seq. No.	53537	Seq. ID	OJ990714_09.0419.C40
Gene No.	112645	Strand	-
Start	678	End	792
Name	OJ990714_09.0419.C40.o1.tm	Method	TBLASTX:Maize
Start	675	End	792
GI	none	Score	144
Exons	675..791, 676..792		
Seq. No.	53537	Seq. ID	OJ990714_09.0419.C40
Gene No.	112645	Strand	-
Start	678	End	792
Name	OJ990714_09.0419.C40.o1.gp	Method	AAT/GAP
Start	678	End	792
GI	969_1.R1084	Score	209

Exons	678..792		
GI Descrip.	'2499614/sp|Q40517|NTF3_TOBAC 1.0e-179 MITOGEN-ACTIVATED PROTEIN KINASE HOMOLOG NTF3 (P43) >gi_481830_pir__S39559 mitogen-activated protein kinase 3 homolog ntf3 - common tobacco >gi_406751_emb_CAA49592_ (X69971) NTF3 [Nicotiana tabacum]'		

Seq. No.	53537	Seq. ID	OJ990714_09.0419.C40
Gene No.	112645	Strand	-
Start	678	End	792
Name	OJ990714_09.0419.C40.o1.np	Method	AAT/NAP
Start	678	End	792
GI	6491800	Score	174
Exons	678..792		
GI Descrip.	(AJ251330) MAPK4 protein [Oryza sativa]		

Seq. No.	53538	Seq. ID	OJ990714_09.0419.C41
Gene No.	112646	Strand	+
Start	650	End	755
Name	OJ990714_09.0419.C41.o1.gs	Method	GENSCAN
Start	650	End	755
GI	none	Score	.56
Exons	650..755		

Seq. No.	53539	Seq. ID	OJ990524_02.0419.C5
Gene No.	112647	Strand	+
Start	882	End	2206
Name	OJ990524_02.0419.C5.o1.gs	Method	GENSCAN
Start	882	End	2206
GI	none	Score	.64
Exons	882..958, 979..1197, 2008..2206		

Seq. No.	53539	Seq. ID	OJ990524_02.0419.C5
Gene No.	112648	Strand	-
Start	1	End	1295
Name	OJ990524_02.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	1295
GI	7484803	Score	167
Exons	1..73, 969..1295		
GI Descrip.	amidase homolog T11I11.120 - Arabidopsis thaliana gi|5123705|emb|CAB45449.1| (AL079347) amidase-like protein [Arabidopsis thaliana] gi|7270439|emb|CAB80205.1| (AL161586) amidase-like protein [Arabidopsis thaliana]		

Seq. No.	53540	Seq. ID	OJ990524_02.0419.C8
Gene No.	112649	Strand	-
Start	1	End	1514
Name	OJ990524_02.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	327
GI	6721562	Score	580
Exons	1..327		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi|6815087|dbj|BAA90373.1| (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		

Seq. No.	53540	Seq. ID	OJ990524_02.0419.C8

Gene No.	112649	Strand	-
Start	1	End	1514
Name	OJ990524_02.0419.C8.o1.gs	Method	GENSCAN
Start	60	End	941
GI	none	Score	.57
Exons	60..345, 402..506, 855..941		

Seq. No.	53540	Seq. ID	OJ990524_02.0419.C8
Gene No.	112649	Strand	-
Start	1	End	1514
Name	OJ990524_02.0419.C8.o2.np	Method	AAT/NAP
Start	555	End	1514
GI	5042454	Score	183
Exons	555..608, 855..1028, 1254..1514		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	53541	Seq. ID	OJ990524_02.0419.C10
Gene No.	112650	Strand	-
Start	1	End	487
Name	OJ990524_02.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	487
GI	7440172	Score	50
Exons	1..34, 267..487		
GI Descrip.	ribosomal protein S4 - rice mitochondrion gi|3025870|gb|AAC26506.1| (AF055706) ribosomal protein S4 [Oryza sativa]		

Seq. No.	53542	Seq. ID	OJ990524_02.0419.C12
Gene No.	112651	Strand	-
Start	255	End	353
Name	OJ990524_02.0419.C12.o1.gs	Method	GENSCAN
Start	255	End	353
GI	none	Score	.8
Exons	255..353		

Seq. No.	53543	Seq. ID	OJ990524_02.0419.C13
Gene No.	112652	Strand	+
Start	408	End	895
Name	OJ990524_02.0419.C13.o1.gs	Method	GENSCAN
Start	408	End	895
GI	none	Score	.61
Exons	408..490, 747..895		

Seq. No.	53544	Seq. ID	OJ990524_02.0419.C15
Gene No.	112653	Strand	+
Start	1040	End	1334
Name	OJ990524_02.0419.C15.o1.gs	Method	GENSCAN
Start	1040	End	1334
GI	none	Score	.95
Exons	1040..1090, 1179..1334		

Seq. No.	53545	Seq. ID	OJ990524_02.0419.C17
Gene No.	112654	Strand	-
Start	33	End	734
Name	OJ990524_02.0419.C17.o1.gs	Method	GENSCAN
Start	33	End	610
GI	none	Score	.74

Exons	33..259, 553..610		
Seq. No.	53545	Seq. ID	OJ990524_02.0419.C17
Gene No.	112654	Strand	-
Start	33	End	734
Name	OJ990524_02.0419.C17.o1.np	Method	AAT/NAP
Start	75	End	734
GI	732311	Score	98
Exons	75..267, 712..734		
GI Descrip.	HYPOTHETICAL 15.7 KD PROTEIN IN PBPD-COMA INTERGENIC REGION (ORF2) gi|1075880|pir||B55220 pbpD 3'-region hypothetical protein - Bacillus subtilis gi|520537 (U11882) unknown [Bacillus subtilis] gi|1934785|emb|CAB07916| (Z93933) unknown [Bacillus subtilis] gi|2635646|emb|CAB15139| (Z99120) alternate gene name: yugD [Bacillus subtilis]		
Seq. No.	53546	Seq. ID	OJ990524_02.0419.C24
Gene No.	112655	Strand	-
Start	1	End	893
Name	OJ990524_02.0419.C24.o1.np	Method	AAT/NAP
Start	1	End	887
GI	6539553	Score	1526
Exons	1..887		
GI Descrip.	(AP000836) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa] gi|6539590|dbj|BAA88206.1| (AP000837) Similar to Oryza australiensis retrotransposon RIRE1 (D85597) [Oryza sativa]		
Seq. No.	53546	Seq. ID	OJ990524_02.0419.C24
Gene No.	112655	Strand	-
Start	1	End	893
Name	OJ990524_02.0419.C24.o1.gs	Method	GENSCAN
Start	37	End	887
GI	none	Score	.52
Exons	37..887		
Seq. No.	53546	Seq. ID	OJ990524_02.0419.C24
Gene No.	112655	Strand	-
Start	1	End	893
Name	OJ990524_02.0419.C24.o1.tm	Method	TBLASTX:Maize
Start	445	End	758
GI	none	Score	297
Exons	445..750, 447..758		
Seq. No.	53546	Seq. ID	OJ990524_02.0419.C24
Gene No.	112655	Strand	-
Start	1	End	893
Name	OJ990524_02.0419.C24.o1.tw	Method	TBLASTX:Wheat
Start	507	End	893
GI	none	Score	258
Exons	507..893, 508..882		
Seq. No.	53547	Seq. ID	OJ990524_02.0419.C26
Gene No.	112656	Strand	-
Start	58	End	680
Name	OJ990524_02.0419.C26.o1.gs	Method	GENSCAN
Start	58	End	680

GI	none	Score	.53
Exons	58..275, 602..680		

Seq. No.	53547	Seq. ID	OJ990524_02.0419.C26
Gene No.	112657	Strand	-
Start	889	End	1055
Name	OJ990524_02.0419.C26.o1.np	Method	AAT/NAP
Start	889	End	1055
GI	7340884	Score	117
Exons	889..1055		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	53548	Seq. ID	OJ990524_02.0419.C35
Gene No.	112658	Strand	+
Start	77	End	824
Name	OJ990524_02.0419.C35.o1.gs	Method	GENSCAN
Start	77	End	824
GI	none	Score	.45
Exons	77..219, 812..824		

Seq. No.	53548	Seq. ID	OJ990524_02.0419.C35
Gene No.	112659	Strand	-
Start	1038	End	1653
Name	OJ990524_02.0419.C35.o2.gs	Method	GENSCAN
Start	1038	End	1556
GI	none	Score	.94
Exons	1038..1556		

Seq. No.	53548	Seq. ID	OJ990524_02.0419.C35
Gene No.	112659	Strand	-
Start	1038	End	1653
Name	OJ990524_02.0419.C35.o1.np	Method	AAT/NAP
Start	1116	End	1653
GI	4678937	Score	195
Exons	1116..1653		
GI Descrip.	(AL049711) putative protein [Arabidopsis thaliana]		

Seq. No.	53548	Seq. ID	OJ990524_02.0419.C35
Gene No.	112659	Strand	-
Start	1038	End	1653
Name	OJ990524_02.0419.C35.o1.tw	Method	TBLASTX:Wheat
Start	1158	End	1281
GI	none	Score	164
Exons	1158..1280, 1159..1281		

Seq. No.	53549	Seq. ID	OJ990524_02.0419.C41
Gene No.	112660	Strand	+
Start	166	End	246
Name	OJ990524_02.0419.C41.o1.gs	Method	GENSCAN
Start	166	End	246
GI	none	Score	.6
Exons	166..246		

Seq. No.	53550	Seq. ID	OJ990524_02.0419.C51
Gene No.	112661	Strand	-
Start	1	End	1031

Name	OJ990524_02.0419.C51.o1.np	Method	AAT/NAP
Start	1	End	1031
GI	7228457	Score	1677
Exons	1..1031		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	53550	Seq. ID	OJ990524_02.0419.C51
Gene No.	112661	Strand	-
Start	1	End	1031
Name	OJ990524_02.0419.C51.o1.gs	Method	GENSCAN
Start	63	End	949
GI	none	Score	.89
Exons	63..949		

Seq. No.	53551	Seq. ID	OJ990504_03.0419.C49
Gene No.	112662	Strand	-
Start	643	End	873
Name	OJ990504_03.0419.C49.o1.np	Method	AAT/NAP
Start	643	End	873
GI	629693	Score	93
Exons	643..873		
GI Descrip.	probable integrase - common tobacco (fragment) gi|530742|emb|CAA56791| (X80830) integrase [Nicotiana tabacum]		

Seq. No.	53552	Seq. ID	OJ990504_03.0419.C60
Gene No.	112663	Strand	+
Start	153	End	247
Name	OJ990504_03.0419.C60.o1.np	Method	AAT/NAP
Start	153	End	247
GI	5852178	Score	124
Exons	153..247		
GI Descrip.	(AL117265) zhb0008.1 [Oryza sativa]		

Seq. No.	53552	Seq. ID	OJ990504_03.0419.C60
Gene No.	112664	Strand	+
Start	153	End	269
Name	OJ990504_03.0419.C60.o1.gs	Method	GENSCAN
Start	153	End	269
GI	none	Score	.58
Exons	153..269		

Seq. No.	53552	Seq. ID	OJ990504_03.0419.C60
Gene No.	112665	Strand	+
Start	832	End	1005
Name	OJ990504_03.0419.C60.o2.np	Method	AAT/NAP
Start	832	End	1005
GI	6063554	Score	110
Exons	832..1005		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53553	Seq. ID	OJ990504_03.0419.C70
Gene No.	112666	Strand	+
Start	333	End	771

Name	OJ990504_03.0419.C70.o1.gs	Method	GENSCAN
Start	333	End	771
GI	none	Score	.91
Exons	333..514, 587..771		

Seq. No.	53554	Seq. ID	OJ990504_03.0419.C76
Gene No.	112667	Strand	-
Start	1	End	1483
Name	OJ990504_03.0419.C76.o1.np	Method	AAT/NAP
Start	1	End	1483
GI	7267526	Score	112
Exons	1..24, 938..1020, 1078..1483		
GI Descrip.	(AL161513) putative protein [Arabidopsis thaliana] gi|7321072|emb|CAB82119.1| (AL161813) putative protein [Arabidopsis thaliana]		

Seq. No.	53554	Seq. ID	OJ990504_03.0419.C76
Gene No.	112667	Strand	-
Start	1	End	1483
Name	OJ990504_03.0419.C76.o1.tm	Method	TBLASTX:Maize
Start	899	End	1315
GI	none	Score	95
Exons	899..1066, 900..1010, 1010..1084, 1011..1073, 1073..1315, 1101..1295		

Seq. No.	53554	Seq. ID	OJ990504_03.0419.C76
Gene No.	112667	Strand	-
Start	1	End	1483
Name	OJ990504_03.0419.C76.o1.tw	Method	TBLASTX:Wheat
Start	953	End	1270
GI	none	Score	75
Exons	953..1228, 956..1270, 969..1265		

Seq. No.	53555	Seq. ID	OJ990504_03.0419.C80
Gene No.	112668	Strand	+
Start	185	End	1088
Name	OJ990504_03.0419.C80.o1.gp	Method	AAT/GAP
Start	185	End	1088
GI	7430_1.R1084	Score	1591
Exons	185..675, 748..1088		
GI Descrip.	'399015/sp|P31691|ADT_ORYSA 1.0e-145 ADP,ATP CARRIER PROTEIN PRECURSOR (ADP/ATP TRANSLOCASE) (ADENINE NUCLEOTIDE TRANSLOCATOR) (ANT) >gi_218145_dbj_BAA02161_ (D12637) ATP/ADP translocator [Oryza sativa]'		

Seq. No.	53555	Seq. ID	OJ990504_03.0419.C80
Gene No.	112668	Strand	+
Start	185	End	1088
Name	OJ990504_03.0419.C80.o1.tm	Method	TBLASTX:Maize
Start	189	End	1088
GI	none	Score	624
Exons	189..671, 190..684, 373..693, 527..694, 746..820, 746..1051, 747..1052, 748..1053, 1061..1087, 1062..1088		

Seq. No.	53555	Seq. ID	OJ990504_03.0419.C80
Gene No.	112668	Strand	+
Start	185	End	1088

Name	OJ990504_03.0419.C80.o1.gs	Method	GENSCAN
Start	202	End	1042
GI	none	Score	.57
Exons	202..675, 748..1042		

Seq. No.	53555	Seq. ID	OJ990504_03.0419.C80
Gene No.	112668	Strand	+
Start	185	End	1088
Name	OJ990504_03.0419.C80.o1.np	Method	AAT/NAP
Start	202	End	1088
GI	2780194	Score	897
Exons	202..675, 748..1088		
GI Descrip.	(AJ003197) adenine nucleotide translocator [Lupinus albus]		

Seq. No.	53555	Seq. ID	OJ990504_03.0419.C80
Gene No.	112668	Strand	+
Start	185	End	1088
Name	OJ990504_03.0419.C80.o1.ts	Method	TBLASTX:Soybean
Start	202	End	1088
GI	none	Score	64
Exons	202..279, 322..684, 369..671, 388..690, 527..691, 571..639, 739..828, 740..820, 744..1052, 748..1053, 1062..1088, 1065..1088		

Seq. No.	53555	Seq. ID	OJ990504_03.0419.C80
Gene No.	112668	Strand	+
Start	185	End	1088
Name	OJ990504_03.0419.C80.o1.tc	Method	TBLASTX:Cress
Start	378	End	1088
GI	none	Score	418
Exons	378..671, 385..684, 385..693, 731..820, 743..982, 748..921, 933..1052, 942..1052, 949..1053, 1062..1088		

Seq. No.	53555	Seq. ID	OJ990504_03.0419.C80
Gene No.	112668	Strand	+
Start	185	End	1088
Name	OJ990504_03.0419.C80.o2.tw	Method	TBLASTX:Wheat
Start	387	End	612
GI	none	Score	134
Exons	387..611, 412..612, 414..611, 415..612		

Seq. No.	53555	Seq. ID	OJ990504_03.0419.C80
Gene No.	112668	Strand	+
Start	185	End	1088
Name	OJ990504_03.0419.C80.o1.tw	Method	TBLASTX:Wheat
Start	631	End	1088
GI	none	Score	63
Exons	631..693, 633..677, 634..684, 719..820, 743..1087, 748..1053, 1062..1088		

Seq. No.	53556	Seq. ID	OJ990504_03.0419.C82
Gene No.	112669	Strand	+
Start	238	End	592
Name	OJ990504_03.0419.C82.o1.gs	Method	GENSCAN
Start	238	End	592
GI	none	Score	.69
Exons	238..324, 449..592		

Seq. No.	53556	Seq. ID	OJ990504_03.0419.C82
Gene No.	112670	Strand	-
Start	834	End	1208
Name	OJ990504_03.0419.C82.o2.gs	Method	GENSCAN
Start	834	End	1208
GI	none	Score	.85
Exons	834..1208		

Seq. No.	53557	Seq. ID	OJ990504_03.0419.C85
Gene No.	112671	Strand	+
Start	178	End	248
Name	OJ990504_03.0419.C85.o1.gs	Method	GENSCAN
Start	178	End	248
GI	none	Score	.6
Exons	178..248		

Seq. No.	53557	Seq. ID	OJ990504_03.0419.C85
Gene No.	112672	Strand	-
Start	874	End	948
Name	OJ990504_03.0419.C85.o2.gs	Method	GENSCAN
Start	874	End	948
GI	none	Score	.78
Exons	874..948		

Seq. No.	53558	Seq. ID	OJ990504_03.0419.C88
Gene No.	112673	Strand	+
Start	1062	End	1588
Name	OJ990504_03.0419.C88.o2.gs	Method	GENSCAN
Start	1062	End	1588
GI	none	Score	.83
Exons	1062..1126, 1320..1371, 1490..1588		

Seq. No.	53558	Seq. ID	OJ990504_03.0419.C88
Gene No.	112674	Strand	-
Start	1	End	1895
Name	OJ990504_03.0419.C88.o1.np	Method	AAT/NAP
Start	1	End	1895
GI	4680203	Score	382
Exons	1..760, 1831..1895		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	53558	Seq. ID	OJ990504_03.0419.C88
Gene No.	112674	Strand	-
Start	1	End	1895
Name	OJ990504_03.0419.C88.o1.ts	Method	TBLASTX:Soybean
Start	61	End	283
GI	none	Score	127
Exons	61..228, 62..283, 63..281		

Seq. No.	53558	Seq. ID	OJ990504_03.0419.C88
Gene No.	112674	Strand	-
Start	1	End	1895
Name	OJ990504_03.0419.C88.o1.tw	Method	TBLASTX:Wheat
Start	65	End	301
GI	none	Score	106
Exons	65..301, 66..260		

Seq. No.	53558	Seq. ID	OJ990504_03.0419.C88
Gene No.	112674	Strand	-
Start	1	End	1895
Name	OJ990504_03.0419.C88.o1.gs	Method	GENSCAN
Start	200	End	760
GI	none	Score	.68
Exons	200..760		

Seq. No.	53559	Seq. ID	OJ990504_03.0419.C89
Gene No.	112675	Strand	
Start	5915	End	6435
Name	OJ990504_03.0419.C89.o2.tm	Method	TBLASTX:Maize
Start	5915	End	6435
GI	none	Score	69
Exons	5915..6013, 5917..6015, 5929..6045, 6004..6117, 6066..6116, 6079..6117, 6113..6217, 6132..6230, 6217..6435, 6219..6314, 6220..6432		

Seq. No.	53559	Seq. ID	OJ990504_03.0419.C89
Gene No.	112676	Strand	
Start	7424	End	7847
Name	OJ990504_03.0419.C89.o1.tm	Method	TBLASTX:Maize
Start	7424	End	7847
GI	none	Score	261
Exons	7424..7645, 7425..7673, 7425..7673, 7662..7736, 7673..7735, 7680..7847, 7736..7846		

Seq. No.	53559	Seq. ID	OJ990504_03.0419.C89
Gene No.	112676	Strand	
Start	7424	End	7847
Name	OJ990504_03.0419.C89.o1.tw	Method	TBLASTX:Wheat
Start	7476	End	7793
GI	none	Score	322
Exons	7476..7790, 7481..7777, 7518..7793		

Seq. No.	53560	Seq. ID	OJ990504_03.0419.C90
Gene No.	112677	Strand	+
Start	471	End	665
Name	OJ990504_03.0419.C90.o1.gs	Method	GENSCAN
Start	471	End	665
GI	none	Score	.5
Exons	471..665		

Seq. No.	53560	Seq. ID	OJ990504_03.0419.C90
Gene No.	112678	Strand	-
Start	1433	End	1810
Name	OJ990504_03.0419.C90.o2.gs	Method	GENSCAN
Start	1433	End	1810
GI	none	Score	.46
Exons	1433..1542, 1726..1810		

Seq. No.	53561	Seq. ID	OJ990504_03.0419.C93
Gene No.	112679	Strand	+
Start	431	End	880
Name	OJ990504_03.0419.C93.o1.gs	Method	GENSCAN
Start	431	End	880
GI	none	Score	.56

Exons	431..623, 747..880		
Seq. No.	53562	Seq. ID	OJ990504_03.0419.C96
Gene No.	112680	Strand	+
Start	1	End	1598
Name	OJ990504_03.0419.C96.o1.np	Method	AAT/NAP
Start	1	End	1598
GI	4926825	Score	429
Exons	1..101, 227..495, 792..1108, 1201..1304, 1401..1598		
GI Descrip.	(AC004135) T17H7.10 [Arabidopsis thaliana]		
Seq. No.	53562	Seq. ID	OJ990504_03.0419.C96
Gene No.	112680	Strand	+
Start	1	End	1598
Name	OJ990504_03.0419.C96.o1.tm	Method	TBLASTX:Maize
Start	3	End	448
GI	none	Score	135
Exons	3..101, 3..101, 221..319, 225..335, 226..321, 322..396, 323..397, 395..448		
Seq. No.	53562	Seq. ID	OJ990504_03.0419.C96
Gene No.	112680	Strand	+
Start	1	End	1598
Name	OJ990504_03.0419.C96.o1.gs	Method	GENSCAN
Start	12	End	1598
GI	none	Score	.81
Exons	12..101, 227..495, 867..1108, 1201..1304, 1401..1598		
Seq. No.	53562	Seq. ID	OJ990504_03.0419.C96
Gene No.	112680	Strand	+
Start	1	End	1598
Name	OJ990504_03.0419.C96.o1.gp	Method	AAT/GAP
Start	1015	End	1598
GI	LIB3434-041-P1-K1-C11	Score	723
Exons	1015..1108, 1201..1304, 1401..1598		
GI Descrip.	'4926825/gb|AAD32935.1|AC004135_10 2.0e-35 (AC004135) T17H7.10 [Arabidopsis thaliana]'		
Seq. No.	53562	Seq. ID	OJ990504_03.0419.C96
Gene No.	112680	Strand	+
Start	1	End	1598
Name	OJ990504_03.0419.C96.o2.tm	Method	TBLASTX:Maize
Start	1188	End	1583
GI	none	Score	99
Exons	1188..1307, 1196..1294, 1400..1576, 1401..1583		
Seq. No.	53563	Seq. ID	OJ990504_03.0419.C99
Gene No.	112681	Strand	-
Start	1266	End	1432
Name	OJ990504_03.0419.C99.o1.gs	Method	GENSCAN
Start	1266	End	1432
GI	none	Score	.76
Exons	1266..1319, 1337..1432		
Seq. No.	53564	Seq. ID	OJ990504_03.0419.C100
Gene No.	112682	Strand	-
Start	1306	End	1445

Name	OJ990504_03.0419.C100.o1.gp	Method	AAT/GAP
Start	1106	End	1445
GI	10762_1.R1084	Score	652
Exons	1106..1445		
GI Descrip.	'1928991 1.0e-125 (U92815) heat shock protein 70 precursor [Citrullus lanatus]'		

Seq. No.	53564	Seq. ID	OJ990504_03.0419.C100
Gene No.	112682	Strand	-
Start	1306	End	1445
Name	OJ990504_03.0419.C100.o2.gs	Method	GENSCAN
Start	1306	End	1400
GI	none	Score	.81
Exons	1306..1400		

Seq. No.	53565	Seq. ID	OJ990504_03.0419.C104
Gene No.	112683	Strand	+
Start	1	End	555
Name	OJ990504_03.0419.C104.o1.np	Method	AAT/NAP
Start	1	End	555
GI	7484804	Score	85
Exons	1..29, 348..435, 507..555		
GI Descrip.	amidotransferase (EC 2.4.2.-) / cyclase - Arabidopsis thaliana gi|4455213|emb|CAB36536.1| (AL035440) glutamine amidotransferase/cyclase [Arabidopsis thaliana] gi|7269543|emb|CAB79545.1| (AL161566) glutamine amidotransferase/cyclase [Arabidopsis thaliana]		

Seq. No.	53565	Seq. ID	OJ990504_03.0419.C104
Gene No.	112683	Strand	+
Start	1	End	555
Name	OJ990504_03.0419.C104.o1.gp	Method	AAT/GAP
Start	348	End	547
GI	18249_1.R1084	Score	177
Exons	348..435, 507..547		
GI Descrip.	'399942/sp|Q02028|HS7S_PEA 4.0e-48 CHLOROPLAST STROMA 70 KD HEAT SHOCK-RELATED PROTEIN PRECURSOR >gi_421881_pir__S32818 heat shock protein, 70K, chloroplast - garden pea >gi_169023 (L03299) 70 kDa heat shock protein [Pisum sativum] >gi_871515_emb_CAA49147_ (X69213) Psst70 (stress 70 protein) [Pisum sativum]'		

Seq. No.	53566	Seq. ID	OJ990504_03.0419.C110
Gene No.	112684	Strand	+
Start	514	End	605
Name	OJ990504_03.0419.C110.o1.gp	Method	AAT/GAP
Start	514	End	605
GI	uC-osroM202001a09b1	Score	142
Exons	514..605		
GI Descrip.	'399942/sp|Q02028|HS7S_PEA 4.0e-48 CHLOROPLAST STROMA 70 KD HEAT SHOCK-RELATED PROTEIN PRECURSOR >gi_421881_pir__S32818 heat shock protein, 70K, chloroplast - garden pea >gi_169023 (L03299) 70 kDa heat shock protein [Pisum sativum] >gi_871515_emb_CAA49147_ (X69213) Psst70 (stress 70 protein) [Pisum sativum]'		

Seq. No.	53566	Seq. ID	OJ990504_03.0419.C110

Gene No.	112685	Strand	+
Start	516	End	605
Name	OJ990504_03.0419.C110.o1.gs	Method	GENSCAN
Start	516	End	605
GI	none	Score	.81
Exons	516..605		

Seq. No.	53566	Seq. ID	OJ990504_03.0419.C110
Gene No.	112686	Strand	+
Start	522	End	1177
Name	OJ990504_03.0419.C110.o1.np	Method	AAT/NAP
Start	522	End	1177
GI	7441856	Score	79
Exons	522..605, 1108..1177		
GI Descrip.	heat shock protein, 70K, chloroplast - cucumber gi|1143427|emb|CAA52149.1| (X73961) heat shock protein 70 [Cucumis sativus]		

Seq. No.	53567	Seq. ID	OJ990504_03.0419.C111
Gene No.	112687	Strand	+
Start	1	End	2722
Name	OJ990504_03.0419.C111.o1.np	Method	AAT/NAP
Start	1	End	2722
GI	7485978	Score	1049
Exons	1..37, 927..1433, 1514..1732, 2037..2198, 2525..2722		
GI Descrip.	hypothetical protein F22O13.10 - Arabidopsis thaliana gi|3063448|gb|AAC14036.1| (AC003981) F22O13.10 [Arabidopsis thaliana]		

Seq. No.	53567	Seq. ID	OJ990504_03.0419.C111
Gene No.	112687	Strand	+
Start	1	End	2722
Name	OJ990504_03.0419.C111.o1.gs	Method	GENSCAN
Start	751	End	2210
GI	none	Score	.65
Exons	751..828, 917..1319, 1578..1732, 2037..2210		

Seq. No.	53567	Seq. ID	OJ990504_03.0419.C111
Gene No.	112687	Strand	+
Start	1	End	2722
Name	OJ990504_03.0419.C111.o1.tm	Method	TBLASTX:Maize
Start	1368	End	2632
GI	none	Score	69
Exons	1368..1433, 1500..1553, 1513..1545, 1597..1731, 1607..1729, 2012..2158, 2020..2184, 2034..2204, 2037..2198, 2525..2632		

Seq. No.	53567	Seq. ID	OJ990504_03.0419.C111
Gene No.	112687	Strand	+
Start	1	End	2722
Name	OJ990504_03.0419.C111.o1.tw	Method	TBLASTX:Wheat
Start	2510	End	2722
GI	none	Score	202
Exons	2510..2722, 2587..2700		

Seq. No.	53568	Seq. ID	OJ990504_03.0419.C112
Gene No.	112688	Strand	-
Start	1349	End	2935

Name	OJ990504_03.0419.C112.o1.gs	Method	GENSCAN
Start	1349	End	2757
GI	none	Score	.8
Exons	1349..1365, 1723..1935, 2044..2289, 2478..2757		

Seq. No.	53568	Seq. ID	OJ990504_03.0419.C112
Gene No.	112688	Strand	-
Start	1349	End	2935
Name	OJ990504_03.0419.C112.o1.np	Method	AAT/NAP
Start	1769	End	2935
GI	6997177	Score	805
Exons	1769..2935		
GI Descrip.	(AC023839) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53568	Seq. ID	OJ990504_03.0419.C112
Gene No.	112688	Strand	-
Start	1349	End	2935
Name	OJ990504_03.0419.C112.o1.tm	Method	TBLASTX:Maize
Start	1937	End	2414
GI	none	Score	40
Exons	1937..1975, 1940..1975, 1982..2044, 2042..2305, 2043..2078, 2045..2227, 2118..2309, 2301..2375, 2302..2361, 2379..2414		

Seq. No.	53568	Seq. ID	OJ990504_03.0419.C112
Gene No.	112688	Strand	-
Start	1349	End	2935
Name	OJ990504_03.0419.C112.o1.tw	Method	TBLASTX:Wheat
Start	1949	End	2370
GI	none	Score	122
Exons	1949..2176, 1949..2185, 2124..2183, 2125..2184, 2186..2305, 2301..2369, 2302..2370		

Seq. No.	53568	Seq. ID	OJ990504_03.0419.C112
Gene No.	112688	Strand	-
Start	1349	End	2935
Name	OJ990504_03.0419.C112.o2.tm	Method	TBLASTX:Maize
Start	2436	End	2846
GI	none	Score	66
Exons	2436..2483, 2485..2742, 2498..2722, 2739..2846		

Seq. No.	53568	Seq. ID	OJ990504_03.0419.C112
Gene No.	112688	Strand	-
Start	1349	End	2935
Name	OJ990504_03.0419.C112.o2.tw	Method	TBLASTX:Wheat
Start	2498	End	2742
GI	none	Score	98
Exons	2498..2722, 2509..2742		

Seq. No.	53569	Seq. ID	OJ990504_03.0419.C114
Gene No.	112689	Strand	
Start	122	End	408
Name	OJ990504_03.0419.C114.o1.tm	Method	TBLASTX:Maize
Start	122	End	408
GI	none	Score	81
Exons	122..208, 123..209, 123..218, 208..321, 212..316, 361..384, 373..402, 373..408		

Seq. No.	53570	Seq. ID	OJ990504_03.0419.C115
Gene No.	112690	Strand	+
Start	1	End	3257
Name	OJ990504_03.0419.C115.o1.np	Method	AAT/NAP
Start	1	End	3257
GI	4680183	Score	183
Exons	1..28, 2493..2559, 3166..3257		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	53570	Seq. ID	OJ990504_03.0419.C115
Gene No.	112690	Strand	+
Start	1	End	3257
Name	OJ990504_03.0419.C115.o1.gs	Method	GENSCAN
Start	6	End	1171
GI	none	Score	.76
Exons	6..108, 220..322, 458..651, 816..974, 1083..1171		

Seq. No.	53570	Seq. ID	OJ990504_03.0419.C115
Gene No.	112691	Strand	-
Start	2832	End	3135
Name	OJ990504_03.0419.C115.o2.gs	Method	GENSCAN
Start	2832	End	3135
GI	none	Score	.62
Exons	2832..3009, 3056..3135		

Seq. No.	53571	Seq. ID	OJ990504_03.0419.C116
Gene No.	112692	Strand	+
Start	1	End	484
Name	OJ990504_03.0419.C116.o1.np	Method	AAT/NAP
Start	1	End	484
GI	5295955	Score	126
Exons	1..484		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	53571	Seq. ID	OJ990504_03.0419.C116
Gene No.	112692	Strand	+
Start	1	End	484
Name	OJ990504_03.0419.C116.o1.gs	Method	GENSCAN
Start	244	End	339
GI	none	Score	.66
Exons	244..339		

Seq. No.	53571	Seq. ID	OJ990504_03.0419.C116
Gene No.	112693	Strand	-
Start	1030	End	1136
Name	OJ990504_03.0419.C116.o1.gp	Method	AAT/GAP
Start	1030	End	1136
GI	uC-osflcyp088b12b1	Score	144
Exons	1030..1136		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	53572	Seq. ID	OJ990504_03.0419.C117
Gene No.	112694	Strand	-
Start	899	End	2109
Name	OJ990504_03.0419.C117.o1.gs	Method	GENSCAN

Start	899	End	2109
GI	none	Score	.84
Exons	899..1207, 1823..2109		

Seq. No.	53573	Seq. ID	OJ990504_03.0419.C118
Gene No.	112695	Strand	+
Start	101	End	473
Name	OJ990504_03.0419.C118.o1.gs	Method	GENSCAN
Start	101	End	473
GI	none	Score	.67
Exons	101..195, 350..473		

Seq. No.	53573	Seq. ID	OJ990504_03.0419.C118
Gene No.	112696	Strand	+
Start	3370	End	3506
Name	OJ990504_03.0419.C118.o1.np	Method	AAT/NAP
Start	3370	End	3506
GI	7485155	Score	69
Exons	3370..3506		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi|2244963|emb|CAB10384.1| (Z97340) hypothetical protein [Arabidopsis thaliana] gi|7268354|emb|CAB78647.1| (AL161543) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53573	Seq. ID	OJ990504_03.0419.C118
Gene No.	112697	Strand	-
Start	878	End	1359
Name	OJ990504_03.0419.C118.o2.gs	Method	GENSCAN
Start	878	End	1359
GI	none	Score	.86
Exons	878..971, 1280..1359		

Seq. No.	53574	Seq. ID	OJ990504_03.0419.C119
Gene No.	112698	Strand	+
Start	297	End	1577
Name	OJ990504_03.0419.C119.o1.np	Method	AAT/NAP
Start	297	End	1577
GI	4417306	Score	169
Exons	297..863, 1505..1577		
GI Descrip.	(AC006446) putative Athila retroelement ORF1 protein [Arabidopsis thaliana]		

Seq. No.	53574	Seq. ID	OJ990504_03.0419.C119
Gene No.	112698	Strand	+
Start	297	End	1577
Name	OJ990504_03.0419.C119.o1.gs	Method	GENSCAN
Start	380	End	1484
GI	none	Score	.71
Exons	380..590, 850..1096, 1148..1484		

Seq. No.	53574	Seq. ID	OJ990504_03.0419.C119
Gene No.	112698	Strand	+
Start	297	End	1577
Name	OJ990504_03.0419.C119.o1.tw	Method	TBLASTX:Wheat
Start	545	End	947
GI	none	Score	94
Exons	545..661, 677..778, 784..855, 852..947		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112699	Strand	+
Start	145	End	4623
Name	OJ990504_03.0419.C120.o1.gp	Method	AAT/GAP
Start	145	End	4623
GI	10672_1.R1084	Score	2413
Exons	145..241, 1859..1926, 2426..2628, 2898..3177, 3265..3344, 3841..3957, 4052..4117, 4202..4623		
GI Descrip.	'82264/pir||S20015 1.0e-132 ubiquinol--cytochrome-c reductase (EC 1.10.2.2) cytochrome c1 precursor (clone pC(1)8I) - potato (fragment) >gi_498789_emb_CAA56109_ (X79597) cytochrome c1 [Solanum tuberosum]'		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112699	Strand	+
Start	145	End	4623
Name	OJ990504_03.0419.C120.o2.gs	Method	GENSCAN
Start	1867	End	4318
GI	none	Score	.91
Exons	1867..1926, 2426..2628, 2898..3177, 3841..3957, 4052..4117, 4202..4318		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112699	Strand	+
Start	145	End	4623
Name	OJ990504_03.0419.C120.o1.np	Method	AAT/NAP
Start	2459	End	4315
GI	82263	Score	1024
Exons	2459..2628, 2898..3177, 3271..3344, 3841..3957, 4052..4117, 4202..4315		
GI Descrip.	ubiquinol--cytochrome-c reductase (EC 1.10.2.2) cytochrome c1 precursor (clone pC(1)3II) - potato		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112700	Strand	-
Start	57	End	638
Name	OJ990504_03.0419.C120.o1.gs	Method	GENSCAN
Start	57	End	638
GI	none	Score	.75
Exons	57..335, 627..638		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112701	Strand	-
Start	6915	End	15427
Name	OJ990504_03.0419.C120.o1.tm	Method	TBLASTX:Maize
Start	1860	End	4471
GI	none	Score	68
Exons	1860..1913, 1863..1922, 1867..1926, 2392..2628, 2426..2629, 2431..2634, 2550..2660, 2896..3177, 2898..3182, 2913..3179, 3059..3184, 3830..3955, 3837..3956, 3840..3956, 3841..3960, 4005..4109, 4049..4120, 4051..4116, 4201..4413, 4202..4357, 4398..4412, 4430..4471		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112701	Strand	-
Start	6915	End	15427

Name	OJ990504_03.0419.C120.o1.ts	Method	TBLASTX:Soybean
Start	2482	End	3903
GI	none	Score	153
Exons	2482..2628, 2504..2659, 2528..2629, 2896..3177, 2898..3173, 3840..3902, 3847..3903		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112701	Strand	-
Start	6915	End	15427
Name	OJ990504_03.0419.C120.o1.tc	Method	TBLASTX:Cress
Start	2510	End	4318
GI	none	Score	158
Exons	2510..2629, 2528..2629, 2550..2660, 2896..3177, 2898..3173, 2904..3179, 3840..3947, 3840..3953, 3841..3960, 4047..4115, 4048..4116, 4049..4120, 4195..4287, 4201..4314, 4202..4318		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112701	Strand	-
Start	6915	End	15427
Name	OJ990504_03.0419.C120.o2.ts	Method	TBLASTX:Soybean
Start	3934	End	4348
GI	none	Score	42
Exons	3934..3960, 4045..4116, 4049..4120, 4051..4116, 4201..4314, 4202..4348, 4202..4348		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112701	Strand	-
Start	6915	End	15427
Name	OJ990504_03.0419.C120.o2.gp	Method	AAT/GAP
Start	6858	End	8078
GI	LIB3433-034-P1-K1-D10	Score	701
Exons	6858..7123, 7923..8078		
GI Descrip.	'4959460/gb|AF126053.1|AF126053 1.0e-10 Zea mays RACB small GTP binding protein mRNA, complete cds'		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112701	Strand	-
Start	6915	End	15427
Name	OJ990504_03.0419.C120.o2.tm	Method	TBLASTX:Maize
Start	6876	End	8305
GI	none	Score	117
Exons	6876..7118, 6879..7124, 6884..7129, 7928..8089, 7979..8092, 7993..8091, 8169..8303, 8174..8296, 8186..8305, 8187..8300		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112701	Strand	-
Start	6915	End	15427
Name	OJ990504_03.0419.C120.o3.gs	Method	GENSCAN
Start	6915	End	15103
GI	none	Score	.77
Exons	6915..7123, 7923..8090, 8188..8303, 11044..11174, 11508..11605, 12061..12448, 13574..13612, 13629..13784, 13945..14169, 15020..15103		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112701	Strand	-
Start	6915	End	15427

Name	OJ990504_03.0419.C120.o1.tw	Method	TBLASTX:Wheat
Start	6939	End	8044
GI	none	Score	120
Exons	6939..7118, 6945..7124, 6947..7129, 7931..8041, 7979..8044, 7990..8043		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112701	Strand	-
Start	6915	End	15427
Name	OJ990504_03.0419.C120.o4.ts	Method	TBLASTX:Soybean
Start	7988	End	8299
GI	none	Score	56
Exons	7988..8068, 7990..8067, 8169..8297, 8171..8296, 8186..8299		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112701	Strand	-
Start	6915	End	15427
Name	OJ990504_03.0419.C120.o3.tc	Method	TBLASTX:Cress
Start	7993	End	8304
GI	none	Score	139
Exons	7993..8073, 8160..8297, 8174..8296, 8176..8304		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112701	Strand	-
Start	6915	End	15427
Name	OJ990504_03.0419.C120.o4.gp	Method	AAT/GAP
Start	13337	End	15050
GI	35940_1.R1084	Score	1329
Exons	13337..13784, 13945..14169, 15020..15050		
GI Descrip.	'5918187/emb|CAB56225.1| 3.0e-58 (AJ133278) ribophorin I [Hordeum vulgare]'		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112701	Strand	-
Start	6915	End	15427
Name	OJ990504_03.0419.C120.o3.tm	Method	TBLASTX:Maize
Start	13415	End	15423
GI	none	Score	46
Exons	13415..13453, 13569..13793, 13573..13785, 13942..14130, 13943..14170, 14007..14132, 15017..15181, 15018..15179, 15018..15185, 15019..15186, 15387..15422, 15388..15423		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112701	Strand	-
Start	6915	End	15427
Name	OJ990504_03.0419.C120.o2.tc	Method	TBLASTX:Cress
Start	13583	End	13787
GI	none	Score	153
Exons	13583..13786, 13593..13787, 13597..13785		

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112701	Strand	-
Start	6915	End	15427
Name	OJ990504_03.0419.C120.o2.np	Method	AAT/NAP
Start	13596	End	15427
GI	5918187	Score	782
Exons	13596..13784, 13945..14169, 15020..15178, 15390..15427		

GI Descrip. (AJ133278) ribophorin I [Hordeum vulgare]

Seq. No.	53575	Seq. ID	OJ990504_03.0419.C120
Gene No.	112701	Strand	-
Start	6915	End	15427
Name	OJ990504_03.0419.C120.o3.ts	Method	TBLASTX:Soybean
Start	15017	End	15189
GI	none	Score	144
Exons	15017..15187, 15018..15179, 15019..15180, 15019..15189		

Seq. No.	53576	Seq. ID	OJ990504_03.0419.C122
Gene No.	112702	Strand	+
Start	122	End	320
Name	OJ990504_03.0419.C122.o1.gs	Method	GENSCAN
Start	122	End	320
GI	none	Score	.46
Exons	122..320		

Seq. No.	53577	Seq. ID	OJ990504_03.0419.C123
Gene No.	112703	Strand	+
Start	454	End	1616
Name	OJ990504_03.0419.C123.o1.gs	Method	GENSCAN
Start	454	End	1616
GI	none	Score	.63
Exons	454..501, 1563..1616		

Seq. No.	53578	Seq. ID	OJ990504_03.0419.C124
Gene No.	112704	Strand	-
Start	3087	End	3451
Name	OJ990504_03.0419.C124.o1.np	Method	AAT/NAP
Start	2534	End	3451
GI	4585985	Score	296
Exons	2534..3451		

GI Descrip. (AC005287) Hypothetical protein [Arabidopsis thaliana]

Seq. No.	53578	Seq. ID	OJ990504_03.0419.C124
Gene No.	112704	Strand	-
Start	3087	End	3451
Name	OJ990504_03.0419.C124.o1.tm	Method	TBLASTX:Maize
Start	2748	End	3106
GI	none	Score	106
Exons	2748..2936, 2748..2939, 2749..2940, 2934..3017, 2935..3000, 2996..3106, 3012..3098		

Seq. No.	53578	Seq. ID	OJ990504_03.0419.C124
Gene No.	112704	Strand	-
Start	3087	End	3451
Name	OJ990504_03.0419.C124.o1.tw	Method	TBLASTX:Wheat
Start	2946	End	3317
GI	none	Score	61
Exons	2946..3017, 2947..3021, 2996..3106, 2997..3098, 3106..3168, 3111..3182, 3174..3317, 3175..3309		

Seq. No.	53578	Seq. ID	OJ990504_03.0419.C124
Gene No.	112704	Strand	-
Start	3087	End	3451
Name	OJ990504_03.0419.C124.o1.gs	Method	GENSCAN

Start	3087	End	3404
GI	none	Score	.71
Exons	3087..3404		

Seq. No.	53579	Seq. ID	OJ990504_03.0419.C125
Gene No.	112705	Strand	+
Start	1	End	504
Name	OJ990504_03.0419.C125.o1.np	Method	AAT/NAP
Start	1	End	504
GI	6815072	Score	202
Exons	1..302, 413..504		
GI Descrip.	(AP001080) Similar to Arabidopsis thaliana chromosome II BAC T13P21; hypothetical protein (AC006067) [Oryza sativa]		

Seq. No.	53579	Seq. ID	OJ990504_03.0419.C125
Gene No.	112705	Strand	+
Start	1	End	504
Name	OJ990504_03.0419.C125.o1.gs	Method	GENSCAN
Start	58	End	371
GI	none	Score	.89
Exons	58..63, 249..371		

Seq. No.	53579	Seq. ID	OJ990504_03.0419.C125
Gene No.	112706	Strand	-
Start	2173	End	3269
Name	OJ990504_03.0419.C125.o1.tm	Method	TBLASTX:Maize
Start	11	End	191
GI	none	Score	237
Exons	11..187, 12..188, 12..191		

Seq. No.	53579	Seq. ID	OJ990504_03.0419.C125
Gene No.	112706	Strand	-
Start	2173	End	3269
Name	OJ990504_03.0419.C125.o2.gs	Method	GENSCAN
Start	2173	End	3269
GI	none	Score	.83
Exons	2173..2217, 2868..2970, 3223..3269		

Seq. No.	53580	Seq. ID	OJ990504_03.0419.C126
Gene No.	112707	Strand	+
Start	113	End	1457
Name	OJ990504_03.0419.C126.o1.gs	Method	GENSCAN
Start	113	End	1457
GI	none	Score	.69
Exons	113..209, 620..832, 1279..1457		

Seq. No.	53580	Seq. ID	OJ990504_03.0419.C126
Gene No.	112708	Strand	+
Start	2945	End	8941
Name	OJ990504_03.0419.C126.o2.np	Method	AAT/NAP
Start	2945	End	4669
GI	7228450	Score	237
Exons	2945..2989, 4127..4218, 4352..4470, 4556..4669		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	53580	Seq. ID	OJ990504_03.0419.C126
Gene No.	112708	Strand	+

Start	2945	End	8941
Name	OJ990504_03.0419.C126.o3.np	Method	AAT/NAP
Start	3868	End	8941
GI	5139348	Score	258
Exons	3868..3916, 5319..5421, 5558..5630, 6181..6316, 6531..6575, 6661..6800, 6867..6961, 8916..8941		
GI Descrip.	(AJ007046) [acyl-carrier protein] S-malonyltransferase [Brassica napus]		

Seq. No.	53580	Seq. ID	OJ990504_03.0419.C126
Gene No.	112709	Strand	-
Start	1236	End	3006
Name	OJ990504_03.0419.C126.o1.np	Method	AAT/NAP
Start	1236	End	3006
GI	5922620	Score	172
Exons	1236..1375, 2948..3006		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53580	Seq. ID	OJ990504_03.0419.C126
Gene No.	112710	Strand	-
Start	4393	End	4962
Name	OJ990504_03.0419.C126.o2.gs	Method	GENSCAN
Start	4393	End	4962
GI	none	Score	.43
Exons	4393..4526, 4881..4962		

Seq. No.	53580	Seq. ID	OJ990504_03.0419.C126
Gene No.	112711	Strand	-
Start	5320	End	6846
Name	OJ990504_03.0419.C126.o3.gs	Method	GENSCAN
Start	5320	End	6846
GI	none	Score	.44
Exons	5320..5436, 6627..6704, 6793..6846		

Seq. No.	53581	Seq. ID	OJ990504_03.0419.C127
Gene No.	112712	Strand	-
Start	1581	End	1660
Name	OJ990504_03.0419.C127.o1.gs	Method	GENSCAN
Start	1581	End	1660
GI	none	Score	.88
Exons	1581..1660		

Seq. No.	53582	Seq. ID	OJ990504_03.0419.C129
Gene No.	112713	Strand	+
Start	1571	End	1682
Name	OJ990504_03.0419.C129.o1.gp	Method	AAT/GAP
Start	1571	End	1682
GI	7430_1.R1084	Score	190
Exons	1571..1682		
GI Descrip.	'399015/sp|P31691|ADT_ORYSA 1.0e-145 ADP,ATP CARRIER PROTEIN PRECURSOR (ADP/ATP TRANSLOCASE) (ADENINE NUCLEOTIDE TRANSLOCATOR) (ANT) >gi_218145_dbj_BAA02161_ (D12637) ATP/ADP translocator [Oryza sativa]'		

Seq. No.	53582	Seq. ID	OJ990504_03.0419.C129
Gene No.	112714	Strand	-
Start	1	End	2623
Name	OJ990504_03.0419.C129.o2.np	Method	AAT/NAP
Start	1	End	903
GI	3023947	Score	167
Exons	1..86, 744..903		
GI Descrip.	PROBABLE HISTONE DEACETYLASE (RPD3 HOMOLOG) gi|2665840 (AF035815) putative histone deacetylase RPD3 [Zea mays]		

Seq. No.	53582	Seq. ID	OJ990504_03.0419.C129
Gene No.	112714	Strand	-
Start	1	End	2623
Name	OJ990504_03.0419.C129.o1.gs	Method	GENSCAN
Start	196	End	1691
GI	none	Score	.53
Exons	196..324, 630..842, 908..1069, 1147..1186, 1341..1447, 1575..1691		

Seq. No.	53582	Seq. ID	OJ990504_03.0419.C129
Gene No.	112714	Strand	-
Start	1	End	2623
Name	OJ990504_03.0419.C129.o1.np	Method	AAT/NAP
Start	249	End	2623
GI	7543907	Score	92
Exons	249..375, 2595..2623		
GI Descrip.	(AL163572) peptide transporter-like protein [Arabidopsis thaliana]		

Seq. No.	53582	Seq. ID	OJ990504_03.0419.C129
Gene No.	112714	Strand	-
Start	1	End	2623
Name	OJ990504_03.0419.C129.o1.tc	Method	TBLASTX:Cress
Start	762	End	903
GI	none	Score	176
Exons	762..902, 763..903		

Seq. No.	53582	Seq. ID	OJ990504_03.0419.C129
Gene No.	112714	Strand	-
Start	1	End	2623
Name	OJ990504_03.0419.C129.o1.ts	Method	TBLASTX:Soybean
Start	762	End	903
GI	none	Score	123
Exons	762..902, 763..903		

Seq. No.	53583	Seq. ID	OJ990504_03.0419.C131
Gene No.	112715	Strand	+
Start	1	End	1153
Name	OJ990504_03.0419.C131.o1.gp	Method	AAT/GAP
Start	1	End	114
GI	5005162	Score	215
Exons	1..114		
GI Descrip.	399942/sp|Q02028|HS7S_PEA 4.0e-48 CHLOROPLAST STROMA 70 KD HEAT SHOCK-RELATED PROTEIN PRECURSOR >gi_421881_pir__S32818 heat shock protein, 70K, chloroplast - garden pea >gi_169023 (L03299) 70 kDa heat shock protein [Pisum sativum]		

>gi_871515_emb_CAA49147_ (X69213) Psst70 (stress 70 protein) [Pisum sativum]

Seq. No.	53583	Seq. ID	OJ990504_03.0419.C131
Gene No.	112715	Strand	+
Start	1	End	1153
Name	OJ990504_03.0419.C131.o1.np	Method	AAT/NAP
Start	1	End	1153
GI	399942	Score	557
Exons	1..150, 928..1153		
GI Descrip.	CHLOROPLAST STROMA 70 KD HEAT SHOCK-RELATED PROTEIN PRECURSOR gi|421881|pir||S32818 heat shock protein, 70K, chloroplast - garden pea gi|169023 (L03299) 70 kDa heat shock protein [Pisum sativum] gi|871515|emb|CAA49147| (X69213) Psst70 (stress 70 protein) [Pisum sativum]		

Seq. No.	53583	Seq. ID	OJ990504_03.0419.C131
Gene No.	112715	Strand	+
Start	1	End	1153
Name	OJ990504_03.0419.C131.o1.tm	Method	TBLASTX:Maize
Start	1	End	1152
GI	none	Score	244
Exons	1..153, 3..176, 925..1152, 926..967, 927..1151		

Seq. No.	53583	Seq. ID	OJ990504_03.0419.C131
Gene No.	112715	Strand	+
Start	1	End	1153
Name	OJ990504_03.0419.C131.o1.tc	Method	TBLASTX:Cress
Start	1	End	1152
GI	none	Score	233
Exons	1..153, 21..179, 925..1152, 927..1151		

Seq. No.	53583	Seq. ID	OJ990504_03.0419.C131
Gene No.	112715	Strand	+
Start	1	End	1153
Name	OJ990504_03.0419.C131.o1.gs	Method	GENSCAN
Start	25	End	1112
GI	none	Score	.89
Exons	25..150, 928..1112		

Seq. No.	53583	Seq. ID	OJ990504_03.0419.C131
Gene No.	112715	Strand	+
Start	1	End	1153
Name	OJ990504_03.0419.C131.o1.tw	Method	TBLASTX:Wheat
Start	927	End	1125
GI	none	Score	212
Exons	927..1124, 928..1125		

Seq. No.	53583	Seq. ID	OJ990504_03.0419.C131
Gene No.	112715	Strand	+
Start	1	End	1153
Name	OJ990504_03.0419.C131.o1.ts	Method	TBLASTX:Soybean
Start	928	End	1134
GI	none	Score	226
Exons	928..1134, 945..1124, 961..1134		

Seq. No.	53583	Seq. ID	OJ990504_03.0419.C131

Gene No.	112715	Strand	+
Start	1	End	1153
Name	OJ990504_03.0419.C131.o2.gp	Method	AAT/GAP
Start	977	End	1153
GI	uC-osroM202001a09b1	Score	346
Exons	977..1153		
GI Descrip.	'399942/sp|Q02028|HS7S_PEA 4.0e-48 CHLOROPLAST STROMA 70 KD HEAT SHOCK-RELATED PROTEIN PRECURSOR >gi_421881_pir__S32818 heat shock protein, 70K, chloroplast - garden pea >gi_169023 (L03299) 70 kDa heat shock protein [Pisum sativum] >gi_871515_emb_CAA49147_ (X69213) Psst70 (stress 70 protein) [Pisum sativum]'		

Seq. No.	53584	Seq. ID	OJ991225_74.0419.C13
Gene No.	112716	Strand	-
Start	1	End	1037
Name	OJ991225_74.0419.C13.o1.np	Method	AAT/NAP
Start	1	End	1037
GI	5281044	Score	484
Exons	1..633, 994..1037		
GI Descrip.	(AL080318) flavonoid 3', 5'-hydroxylase like protein [Arabidopsis thaliana]		

Seq. No.	53584	Seq. ID	OJ991225_74.0419.C13
Gene No.	112716	Strand	-
Start	1	End	1037
Name	OJ991225_74.0419.C13.o1.gs	Method	GENSCAN
Start	28	End	702
GI	none	Score	.73
Exons	28..702		

Seq. No.	53584	Seq. ID	OJ991225_74.0419.C13
Gene No.	112716	Strand	-
Start	1	End	1037
Name	OJ991225_74.0419.C13.o1.ts	Method	TBLASTX:Soybean
Start	55	End	337
GI	none	Score	52
Exons	55..171, 56..118, 109..336, 137..337		

Seq. No.	53584	Seq. ID	OJ991225_74.0419.C13
Gene No.	112716	Strand	-
Start	1	End	1037
Name	OJ991225_74.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	88	End	322
GI	none	Score	110
Exons	88..114, 98..232, 118..228, 214..291, 218..289, 277..321, 281..322		

Seq. No.	53584	Seq. ID	OJ991225_74.0419.C13
Gene No.	112716	Strand	-
Start	1	End	1037
Name	OJ991225_74.0419.C13.o1.gp	Method	AAT/GAP
Start	95	End	446
GI	uC-osflcyp005h08b1	Score	700
Exons	95..446		
GI Descrip.	'1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	53584	Seq. ID	OJ991225_74.0419.C13
Gene No.	112716	Strand	-
Start	1	End	1037
Name	OJ991225_74.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	109	End	607
GI	none	Score	71
Exons	109..219, 134..211, 223..369, 563..607	365..529, 367..549, 409..549,	

Seq. No.	53584	Seq. ID	OJ991225_74.0419.C13
Gene No.	112716	Strand	-
Start	1	End	1037
Name	OJ991225_74.0419.C13.o2.ts	Method	TBLASTX:Soybean
Start	388	End	610
GI	none	Score	127
Exons	388..561, 389..610, 402..605		

Seq. No.	53584	Seq. ID	OJ991225_74.0419.C13
Gene No.	112716	Strand	-
Start	1	End	1037
Name	OJ991225_74.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	430	End	708
GI	none	Score	267
Exons	430..708, 430..564, 435..695,	473..706, 628..708	

Seq. No.	53585	Seq. ID	OJ991225_74.0419.C14
Gene No.	112717	Strand	-
Start	11	End	55
Name	OJ991225_74.0419.C14.o1.gs	Method	GENSCAN
Start	11	End	55
GI	none	Score	.54
Exons	11..55		

Seq. No.	53586	Seq. ID	OJ991215_13.0419.C3
Gene No.	112718	Strand	+
Start	126	End	910
Name	OJ991215_13.0419.C3.o1.gp	Method	AAT/GAP
Start	126	End	767
GI	2800109	Score	461
Exons	126..262, 345..398, 667..767		

Seq. No.	53586	Seq. ID	OJ991215_13.0419.C3
Gene No.	112718	Strand	+
Start	126	End	910
Name	OJ991215_13.0419.C3.o1.gs	Method	GENSCAN
Start	143	End	763
GI	none	Score	.82
Exons	143..262, 667..763		

Seq. No.	53586	Seq. ID	OJ991215_13.0419.C3
Gene No.	112718	Strand	+
Start	126	End	910
Name	OJ991215_13.0419.C3.o1.np	Method	AAT/NAP
Start	178	End	910
GI	6759450	Score	101
Exons	178..262, 345..398, 667..910		

GI Descrip. (AL137189) hypothetical protein [Arabidopsis thaliana]

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o1.np	Method	AAT/NAP
Start	1573	End	5945
GI	7444451	Score	4662
Exons	1573..5945		
GI Descrip.	probable gag/pol polyprotein - long-staminate rice retrotransposon retrofit gi|2586082|gb|AAB82754.1| (U72725) retrofit [Oryza longistaminata]		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o3.tm	Method	TBLASTX:Maize
Start	1662	End	2097
GI	none	Score	101
Exons	1662..1745, 1663..1746, 1792..2097, 1801..1890, 1944..2069		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o5.tw	Method	TBLASTX:Wheat
Start	1918	End	2217
GI	none	Score	228
Exons	1918..2217, 1959..2069		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o6.tm	Method	TBLASTX:Maize
Start	2098	End	2667
GI	none	Score	81
Exons	2098..2217, 2419..2538, 2518..2667, 2544..2666		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o3.tw	Method	TBLASTX:Wheat
Start	2490	End	2774
GI	none	Score	282
Exons	2490..2774, 2506..2742, 2592..2768		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o4.ts	Method	TBLASTX:Soybean
Start	2955	End	3368
GI	none	Score	88
Exons	2955..3056, 3066..3173, 3189..3368		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o1.tc	Method	TBLASTX:Cress

Start	3359	End	3824
GI	none	Score	344
Exons	3359..3643, 3363..3824, 3683..3823		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o3.ts	Method	TBLASTX:Soybean
Start	3390	End	3794
GI	none	Score	244
Exons	3390..3794		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o4.tw	Method	TBLASTX:Wheat
Start	3467	End	3865
GI	none	Score	273
Exons	3467..3865, 3483..3836		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o5.tm	Method	TBLASTX:Maize
Start	3476	End	3800
GI	none	Score	264
Exons	3476..3799, 3483..3800		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o2.ts	Method	TBLASTX:Soybean
Start	4416	End	4919
GI	5509260	Score	417
Exons	4416..4919, 4497..4655, 4538..4696, 4742..4906		
GI Descrip.	-		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o7.tm	Method	TBLASTX:Maize
Start	4443	End	4712
GI	none	Score	230
Exons	4443..4712, 4463..4672		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o2.tc	Method	TBLASTX:Cress
Start	4532	End	4802
GI	none	Score	286
Exons	4532..4801, 4533..4802		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o2.tw	Method	TBLASTX:Wheat

Start	4583	End	5096
GI	none	Score	286
Exons	4583..4927, 4584..4928, 4920..5096		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	4716	End	5156
GI	none	Score	410
Exons	4716..5156, 4730..4972		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o3.tc	Method	TBLASTX:Cress
Start	4980	End	5225
GI	none	Score	197
Exons	4980..5225		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	5097	End	5534
GI	none	Score	437
Exons	5097..5534, 5100..5243, 5117..5419, 5486..5533		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o4.tm	Method	TBLASTX:Maize
Start	5229	End	5462
GI	none	Score	296
Exons	5229..5462, 5234..5428, 5274..5429		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	5298	End	5894
GI	none	Score	510
Exons	5298..5894, 5300..5425, 5492..5893		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o2.tm	Method	TBLASTX:Maize
Start	5465	End	5888
GI	none	Score	143
Exons	5465..5599, 5466..5594, 5600..5839, 5601..5888		

Seq. No.	53587	Seq. ID	OJ991215_13.0419.C5
Gene No.	112719	Strand	+
Start	1573	End	5945
Name	OJ991215_13.0419.C5.o4.tc	Method	TBLASTX:Cress
Start	5496	End	5921

GI	none	Score	59
Exons	5496..5561, 5570..5686, 5571..5687, 5727..5921		

Seq. No.	53588	Seq. ID	OJ991215_13.0419.C6
Gene No.	112720	Strand	+
Start	1	End	863
Name	OJ991215_13.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	860
GI	6579198	Score	677
Exons	1..860		
GI Descrip.	(AC011438) T23G18.14 [Arabidopsis thaliana]		

Seq. No.	53588	Seq. ID	OJ991215_13.0419.C6
Gene No.	112720	Strand	+
Start	1	End	863
Name	OJ991215_13.0419.C6.o1.gs	Method	GENSCAN
Start	60	End	863
GI	none	Score	.99
Exons	60..863		

Seq. No.	53588	Seq. ID	OJ991215_13.0419.C6
Gene No.	112720	Strand	+
Start	1	End	863
Name	OJ991215_13.0419.C6.o2.ts	Method	TBLASTX:Soybean
Start	255	End	521
GI	none	Score	275
Exons	255..470, 269..460, 474..521		

Seq. No.	53588	Seq. ID	OJ991215_13.0419.C6
Gene No.	112720	Strand	+
Start	1	End	863
Name	OJ991215_13.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	431	End	812
GI	none	Score	59
Exons	431..487, 432..488, 488..769, 489..812		

Seq. No.	53588	Seq. ID	OJ991215_13.0419.C6
Gene No.	112720	Strand	+
Start	1	End	863
Name	OJ991215_13.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	603	End	854
GI	none	Score	316
Exons	603..854, 615..692, 620..769		

Seq. No.	53589	Seq. ID	OJ991215_13.0419.C7
Gene No.	112721	Strand	-
Start	243	End	611
Name	OJ991215_13.0419.C7.o1.gs	Method	GENSCAN
Start	243	End	611
GI	none	Score	.71
Exons	243..273, 340..429, 506..611		

Seq. No.	53590	Seq. ID	OJ991215_13.0419.C8
Gene No.	112722	Strand	+
Start	3876	End	8074
Name	OJ991215_13.0419.C8.o2.gs	Method	GENSCAN
Start	3876	End	7470

GI	none	Score	.9
Exons	3876..4329, 4394..4509, 4895..4995, 5806..5941, 6033..6083, 6189..6476, 6774..7008, 7115..7401, 7450..7470		

Seq. No.	53590	Seq. ID	OJ991215_13.0419.C8
Gene No.	112722	Strand	+
Start	3876	End	8074
Name	OJ991215_13.0419.C8.o1.np	Method	AAT/NAP
Start	3879	End	8074
GI	3860251	Score	1623
Exons	3879..4509, 4597..4766, 4892..4995, 5806..5941, 6033..6083, 6189..6476, 6774..7008, 7115..7402, 8034..8074		
GI Descrip.	(AC005824) putative membrane transporter [Arabidopsis thaliana]		

Seq. No.	53590	Seq. ID	OJ991215_13.0419.C8
Gene No.	112722	Strand	+
Start	3876	End	8074
Name	OJ991215_13.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	4621	End	6443
GI	none	Score	35
Exons	4621..4647, 4648..4713, 4877..4996, 4900..4998, 5795..5941, 5800..5901, 6027..6092, 6033..6107, 6188..6433, 6207..6443		

Seq. No.	53590	Seq. ID	OJ991215_13.0419.C8
Gene No.	112722	Strand	+
Start	3876	End	8074
Name	OJ991215_13.0419.C8.o2.ts	Method	TBLASTX:Soybean
Start	4639	End	5013
GI	none	Score	88
Exons	4639..4713, 4644..4703, 4692..4766, 4883..4927, 4921..5013, 4922..4996		

Seq. No.	53590	Seq. ID	OJ991215_13.0419.C8
Gene No.	112722	Strand	+
Start	3876	End	8074
Name	OJ991215_13.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	6033	End	7323
GI	none	Score	81
Exons	6033..6104, 6188..6487, 6207..6446, 6749..7012, 6774..7013, 6774..7013, 7108..7323, 7110..7307, 7174..7311		

Seq. No.	53590	Seq. ID	OJ991215_13.0419.C8
Gene No.	112722	Strand	+
Start	3876	End	8074
Name	OJ991215_13.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	6749	End	7377
GI	none	Score	260
Exons	6749..7012, 6774..7013, 7113..7262, 7114..7260, 7261..7323, 7266..7307, 7315..7377		

Seq. No.	53591	Seq. ID	OJ991215_13.0419.C9
Gene No.	112723	Strand	-
Start	1	End	215
Name	OJ991215_13.0419.C9.o1.gp	Method	AAT/GAP
Start	1	End	215
GI	uC-osf1cyp132f03a1	Score	415
Exons	1..215		

GI Descrip.	'5852170/emb|AL117265.1|OST17804 2.0e-27 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		
Seq. No.	53591	Seq. ID	OJ991215_13.0419.C9
Gene No.	112724	Strand	-
Start	611	End	3050
Name	OJ991215_13.0419.C9.o1.np	Method	AAT/NAP
Start	611	End	3050
GI	5852181	Score	1563
Exons	611..685, 931..1263, 1817..2795, 3026..3050		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		
Seq. No.	53591	Seq. ID	OJ991215_13.0419.C9
Gene No.	112724	Strand	-
Start	611	End	3050
Name	OJ991215_13.0419.C9.o2.gp	Method	AAT/GAP
Start	1576	End	1909
GI	701114	Score	653
Exons	1576..1909		
GI Descrip.	5852170/emb|AL117265.1|OST17804 2.0e-27 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		
Seq. No.	53591	Seq. ID	OJ991215_13.0419.C9
Gene No.	112724	Strand	-
Start	611	End	3050
Name	OJ991215_13.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	1900	End	2433
GI	none	Score	126
Exons	1900..2028, 2131..2301, 2185..2301, 2190..2303, 2192..2344, 2309..2392, 2311..2433, 2399..2428		
Seq. No.	53592	Seq. ID	OJ991215_13.0419.C10
Gene No.	112725	Strand	-
Start	1	End	2221
Name	OJ991215_13.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	2198
GI	5852181	Score	1303
Exons	1..231, 454..806, 892..1055, 1082..1232, 2092..2198		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		
Seq. No.	53592	Seq. ID	OJ991215_13.0419.C10
Gene No.	112725	Strand	-
Start	1	End	2221
Name	OJ991215_13.0419.C10.o1.gs	Method	GENSCAN
Start	11	End	2196
GI	none	Score	.82
Exons	11..151, 157..289, 505..806, 892..1055, 1064..1232, 2092..2196		
Seq. No.	53592	Seq. ID	OJ991215_13.0419.C10
Gene No.	112725	Strand	-
Start	1	End	2221
Name	OJ991215_13.0419.C10.o1.gp	Method	AAT/GAP
Start	1789	End	2198
GI	102_6.R1084	Score	768
Exons	1789..2198		
GI Descrip.	'2911068/emb|CAA17530.1| 1.0e-78 (AL021960) G10-like protein [Arabidopsis thaliana]'		

Seq. No.	53592	Seq. ID	OJ991215_13.0419.C10
Gene No.	112725	Strand	-
Start	1	End	2221
Name	OJ991215_13.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	1968	End	2207
GI	none	Score	39
Exons	1968..2012, 2036..2206, 2040..2207, 2041..2199, 2048..2206		

Seq. No.	53592	Seq. ID	OJ991215_13.0419.C10
Gene No.	112725	Strand	-
Start	1	End	2221
Name	OJ991215_13.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	2039	End	2206
GI	none	Score	221
Exons	2039..2206, 2041..2199		

Seq. No.	53592	Seq. ID	OJ991215_13.0419.C10
Gene No.	112725	Strand	-
Start	1	End	2221
Name	OJ991215_13.0419.C10.o1.tc	Method	TBLASTX:Cress
Start	2041	End	2194
GI	none	Score	169
Exons	2041..2193, 2045..2194		

Seq. No.	53592	Seq. ID	OJ991215_13.0419.C10
Gene No.	112725	Strand	-
Start	1	End	2221
Name	OJ991215_13.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	2041	End	2221
GI	none	Score	241
Exons	2041..2220, 2045..2221		

Seq. No.	53593	Seq. ID	OJ991215_13.0419.C11
Gene No.	112726	Strand	+
Start	1359	End	5364
Name	OJ991215_13.0419.C11.o2.np	Method	AAT/NAP
Start	1359	End	5364
GI	5852180	Score	101
Exons	1359..1495, 5345..5364		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	53593	Seq. ID	OJ991215_13.0419.C11
Gene No.	112726	Strand	+
Start	1359	End	5364
Name	OJ991215_13.0419.C11.o2.gp	Method	AAT/GAP
Start	1987	End	2080
GI	35458_1.R1084	Score	101
Exons	1987..2080		
GI Descrip.	'3868853/dbj|BAA34247| 1.0e-21 (AB013853) GPI-anchored protein [Vigna radiata]'		

Seq. No.	53593	Seq. ID	OJ991215_13.0419.C11
Gene No.	112727	Strand	-
Start	1	End	1473
Name	OJ991215_13.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	722

GI	5852181	Score	451
Exons	1..28, 325..549, 629..722		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	53593	Seq. ID	OJ991215_13.0419.C11
Gene No.	112727	Strand	-
Start	1	End	1473
Name	OJ991215_13.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	338	End	728
GI	none	Score	107
Exons	338..448, 363..446, 364..447, 364..453, 450..554, 452..550, 621..728, 622..726		

Seq. No.	53593	Seq. ID	OJ991215_13.0419.C11
Gene No.	112727	Strand	-
Start	1	End	1473
Name	OJ991215_13.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	338	End	726
GI	none	Score	101
Exons	338..550, 356..544, 363..554, 627..722, 630..722, 631..726		

Seq. No.	53593	Seq. ID	OJ991215_13.0419.C11
Gene No.	112727	Strand	-
Start	1	End	1473
Name	OJ991215_13.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	338	End	530
GI	none	Score	232
Exons	338..529, 363..530		

Seq. No.	53593	Seq. ID	OJ991215_13.0419.C11
Gene No.	112727	Strand	-
Start	1	End	1473
Name	OJ991215_13.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	338	End	737
GI	none	Score	232
Exons	338..550, 356..547, 363..554, 618..737, 630..737		

Seq. No.	53593	Seq. ID	OJ991215_13.0419.C11
Gene No.	112727	Strand	-
Start	1	End	1473
Name	OJ991215_13.0419.C11.o1.gp	Method	AAT/GAP
Start	362	End	1473
GI	102_6.R1084	Score	867
Exons	362..549, 629..766, 1328..1473		
GI Descrip.	'2911068/emb|CAA17530.1| 1.0e-78 (AL021960) G10-like protein [Arabidopsis thaliana]'		

Seq. No.	53594	Seq. ID	OJ991215_13.0419.C12
Gene No.	112728	Strand	+
Start	62	End	1384
Name	OJ991215_13.0419.C12.o1.np	Method	AAT/NAP
Start	62	End	1384
GI	7493532	Score	193
Exons	62..175, 290..453, 542..662, 1229..1384		
GI Descrip.	Trp-Asp repeat protein - fission yeast (Schizosaccharomyces pombe) gi|5830509|emb|CAB54817.1| (AL110506) WD repeat protein [Schizosaccharomyces pombe]		

Seq. No.	53594	Seq. ID	OJ991215_13.0419.C12
Gene No.	112728	Strand	+
Start	62	End	1384
Name	OJ991215_13.0419.C12.o1.gs	Method	GENSCAN
Start	86	End	449
GI	none	Score	.67
Exons	86..175, 290..449		

Seq. No.	53594	Seq. ID	OJ991215_13.0419.C12
Gene No.	112728	Strand	+
Start	62	End	1384
Name	OJ991215_13.0419.C12.o2.np	Method	AAT/NAP
Start	1237	End	1384
GI	6693030	Score	80
Exons	1237..1384		
GI Descrip.	(AC012375) T22C5.29 [Arabidopsis thaliana]		

Seq. No.	53595	Seq. ID	OJ991215_13.0419.C13
Gene No.	112729	Strand	+
Start	169	End	854
Name	OJ991215_13.0419.C13.o1.gs	Method	GENSCAN
Start	169	End	854
GI	none	Score	.64
Exons	169..246, 708..854		

Seq. No.	53596	Seq. ID	OJ991215_13.0419.C14
Gene No.	112730	Strand	-
Start	992	End	1072
Name	OJ991215_13.0419.C14.o1.gs	Method	GENSCAN
Start	992	End	1072
GI	none	Score	.58
Exons	992..1072		

Seq. No.	53597	Seq. ID	OJ991215_13.0419.C16
Gene No.	112731	Strand	-
Start	127	End	4373
Name	OJ991215_13.0419.C16.o1.gs	Method	GENSCAN
Start	127	End	3479
GI	none	Score	.48
Exons	127..675, 1753..1788, 2425..2499, 3079..3210, 3233..3479		

Seq. No.	53597	Seq. ID	OJ991215_13.0419.C16
Gene No.	112731	Strand	-
Start	127	End	4373
Name	OJ991215_13.0419.C16.o1.np	Method	AAT/NAP
Start	1398	End	4373
GI	6143870	Score	291
Exons	1398..1520, 1753..1788, 1892..1956, 2068..2146, 2425..2499, 3079..3222, 3312..3543, 4312..4373		
GI Descrip.	(AC010927) unknown protein [Arabidopsis thaliana]		

Seq. No.	53597	Seq. ID	OJ991215_13.0419.C16
Gene No.	112731	Strand	-
Start	127	End	4373
Name	OJ991215_13.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	1438	End	3214

GI	none	Score	68
Exons	1438..1482, 1445..1504, 1750..1818, 1750..1803, 1828..1959, 1883..1960, 1894..1962, 1896..1961, 2059..2169, 2064..2189, 2067..2141, 2069..2152, 2422..2502, 2425..2502, 3076..3210, 3080..3211, 3080..3214		

Seq. No.	53598	Seq. ID	OJ991215_13.0419.C17
Gene No.	112732	Strand	+
Start	282	End	2723
Name	OJ991215_13.0419.C17.o1.gs	Method	GENSCAN
Start	282	End	2466
GI	none	Score	.72
Exons	282..370, 375..498, 906..1196, 1297..1403, 1648..2149, 2410..2466		

Seq. No.	53598	Seq. ID	OJ991215_13.0419.C17
Gene No.	112732	Strand	+
Start	282	End	2723
Name	OJ991215_13.0419.C17.o1.np	Method	AAT/NAP
Start	957	End	2723
GI	3860273	Score	535
Exons	957..1196, 1297..1344, 1630..2153, 2655..2723		
GI Descrip.	(AC005824) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53598	Seq. ID	OJ991215_13.0419.C17
Gene No.	112732	Strand	+
Start	282	End	2723
Name	OJ991215_13.0419.C17.o2.tm	Method	TBLASTX:Maize
Start	1017	End	1409
GI	none	Score	48
Exons	1017..1049, 1148..1192, 1152..1196, 1154..1192, 1283..1402, 1284..1409, 1297..1404		

Seq. No.	53598	Seq. ID	OJ991215_13.0419.C17
Gene No.	112732	Strand	+
Start	282	End	2723
Name	OJ991215_13.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	1637	End	1993
GI	none	Score	251
Exons	1637..1798, 1645..1800, 1646..1891, 1937..1993		

Seq. No.	53598	Seq. ID	OJ991215_13.0419.C17
Gene No.	112732	Strand	+
Start	282	End	2723
Name	OJ991215_13.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	1679	End	2043
GI	none	Score	239
Exons	1679..1870, 1682..1870, 1862..2041, 1882..2043, 1882..2040		

Seq. No.	53598	Seq. ID	OJ991215_13.0419.C17
Gene No.	112732	Strand	+
Start	282	End	2723
Name	OJ991215_13.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	1989	End	2149
GI	none	Score	198
Exons	1989..2147, 1993..2148, 1994..2149		

Seq. No.	53599	Seq. ID	OJ991215_13.0419.C18
Gene No.	112733	Strand	+
Start	1	End	706
Name	OJ991215_13.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	676
GI	3860273	Score	195
Exons	1..49, 421..676		
GI Descrip.	(AC005824) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53599	Seq. ID	OJ991215_13.0419.C18
Gene No.	112733	Strand	+
Start	1	End	706
Name	OJ991215_13.0419.C18.o1.tw	Method	TBLASTX:Wheat
Start	459	End	589
GI	none	Score	194
Exons	459..575, 478..588, 479..589, 479..589		

Seq. No.	53599	Seq. ID	OJ991215_13.0419.C18
Gene No.	112733	Strand	+
Start	1	End	706
Name	OJ991215_13.0419.C18.o1.gs	Method	GENSCAN
Start	478	End	682
GI	none	Score	.83
Exons	478..682		

Seq. No.	53599	Seq. ID	OJ991215_13.0419.C18
Gene No.	112733	Strand	+
Start	1	End	706
Name	OJ991215_13.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	478	End	675
GI	none	Score	227
Exons	478..561, 479..673, 604..675		

Seq. No.	53599	Seq. ID	OJ991215_13.0419.C18
Gene No.	112733	Strand	+
Start	1	End	706
Name	OJ991215_13.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	511	End	706
GI	none	Score	287
Exons	511..675, 512..706, 515..700		

Seq. No.	53600	Seq. ID	OJ991215_13.0419.C21
Gene No.	112734	Strand	-
Start	1	End	1851
Name	OJ991215_13.0419.C21.o1.np	Method	AAT/NAP
Start	1	End	1851
GI	6759450	Score	774
Exons	1..75, 786..1256, 1573..1851		
GI Descrip.	(AL137189) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53600	Seq. ID	OJ991215_13.0419.C21
Gene No.	112734	Strand	-
Start	1	End	1851
Name	OJ991215_13.0419.C21.o1.gs	Method	GENSCAN
Start	459	End	1830
GI	none	Score	.7
Exons	459..485, 786..1256, 1573..1830		

Seq. No.	53601	Seq. ID	OJ991215_13.0419.C22
Gene No.	112735	Strand	+
Start	1895	End	2295
Name	OJ991215_13.0419.C22.o1.gp	Method	AAT/GAP
Start	1895	End	2295
GI	none	Score	798
Exons	1895..2295		

Seq. No.	53601	Seq. ID	OJ991215_13.0419.C22
Gene No.	112736	Strand	-
Start	2403	End	4484
Name	OJ991215_13.0419.C22.o1.gs	Method	GENSCAN
Start	2403	End	3540
GI	none	Score	.68
Exons	2403..2856, 3137..3540		

Seq. No.	53601	Seq. ID	OJ991215_13.0419.C22
Gene No.	112736	Strand	-
Start	2403	End	4484
Name	OJ991215_13.0419.C22.o1.np	Method	AAT/NAP
Start	2412	End	4484
GI	3183468	Score	498
Exons	2412..2856, 3137..3204, 3286..3477, 4400..4484		
GI Descrip.	UNDECAPRENYL PYROPHOSPHATE SYNTHETASE (UPP SYNTHETASE) (DI-TRANS-POLY-CIS-DECAPRENYLCISTRANSFERASE) (UNDECAPRENYL DIPHOSPHATE SYNTHASE) (UDS) gi|7447510|pir||A69881 conserved hypothetical protein yluA - Bacillus subtilis gi|2634025|emb|CAB13526.1| (Z99112) similar to hypothetical proteins [Bacillus subtilis]		

Seq. No.	53601	Seq. ID	OJ991215_13.0419.C22
Gene No.	112737	Strand	-
Start	5639	End	6386
Name	OJ991215_13.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	2375	End	3517
GI	none	Score	144
Exons	2375..2488, 2406..2606, 2407..2532, 2409..2615, 2598..2858, 2610..2792, 2674..2847, 3286..3399, 3286..3516, 3413..3517		

Seq. No.	53601	Seq. ID	OJ991215_13.0419.C22
Gene No.	112737	Strand	-
Start	5639	End	6386
Name	OJ991215_13.0419.C22.o2.ts	Method	TBLASTX:Soybean
Start	2404	End	2855
GI	none	Score	71
Exons	2404..2595, 2412..2624, 2589..2819, 2677..2820, 2817..2855		

Seq. No.	53601	Seq. ID	OJ991215_13.0419.C22
Gene No.	112737	Strand	-
Start	5639	End	6386
Name	OJ991215_13.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	3163	End	3501
GI	none	Score	56
Exons	3163..3207, 3172..3207, 3272..3499, 3283..3501		

Seq. No.	53601	Seq. ID	OJ991215_13.0419.C22

Gene No.	112737	Strand	-
Start	5639	End	6386
Name	OJ991215_13.0419.C22.o2.gs	Method	GENSCAN
Start	5639	End	6386
GI	none	Score	.88
Exons	5639..5756, 6202..6386		

Seq. No.	53602	Seq. ID	OJ991215_13.0419.C23
Gene No.	112738	Strand	+
Start	3807	End	4374
Name	OJ991215_13.0419.C23.o1.gp	Method	AAT/GAP
Start	3807	End	4374
GI	35111_1.R1084	Score	1060
Exons	3807..4374		
GI Descrip.	'3021344/emb|CAA06244| 1.0e-12 (AJ004959) hypothetical protein [Cicer arietinum]'		

Seq. No.	53602	Seq. ID	OJ991215_13.0419.C23
Gene No.	112739	Strand	-
Start	80	End	3525
Name	OJ991215_13.0419.C23.o1.gs	Method	GENSCAN
Start	80	End	3477
GI	none	Score	.62
Exons	80..272, 612..682, 1001..1091, 1757..1893, 2033..2111, 2472..2594, 3023..3065, 3164..3477		

Seq. No.	53602	Seq. ID	OJ991215_13.0419.C23
Gene No.	112739	Strand	-
Start	80	End	3525
Name	OJ991215_13.0419.C23.o1.np	Method	AAT/NAP
Start	86	End	3525
GI	7340662	Score	799
Exons	86..272, 612..675, 765..891, 1001..1091, 1416..1504, 1756..1872, 2033..2099, 2186..2305, 2472..2596, 2989..3065, 3164..3525		
GI Descrip.	(AL162506) 3-deoxy-D-manno-octulosonic acid transferase-like protein [Arabidopsis thaliana]		

Seq. No.	53602	Seq. ID	OJ991215_13.0419.C23
Gene No.	112740	Strand	-
Start	3964	End	7461
Name	OJ991215_13.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	627	End	1095
GI	none	Score	60
Exons	627..692, 628..684, 762..911, 770..913, 771..908, 808..921, 966..1088, 1000..1095, 1001..1066, 1006..1086		

Seq. No.	53602	Seq. ID	OJ991215_13.0419.C23
Gene No.	112740	Strand	-
Start	3964	End	7461
Name	OJ991215_13.0419.C23.o2.ts	Method	TBLASTX:Soybean
Start	3949	End	4356
GI	none	Score	242
Exons	3949..4356, 3965..4354		

Seq. No.	53602	Seq. ID	OJ991215_13.0419.C23
Gene No.	112740	Strand	-
Start	3964	End	7461

Name	OJ991215_13.0419.C23.o2.gs	Method	GENSCAN
Start	3964	End	7439
GI	none	Score	.87
Exons	3964..4712, 4816..5002, 5115..5212, 6137..6232, 6568..6675, 7209..7439		

Seq. No.	53602	Seq. ID	OJ991215_13.0419.C23
Gene No.	112740	Strand	-
Start	3964	End	7461
Name	OJ991215_13.0419.C23.o2.np	Method	AAT/NAP
Start	3967	End	7435
GI	6579208	Score	1230
Exons	3967..4697, 4801..5002, 5115..5212, 7209..7435		
GI Descrip.	(AC011438) T23G18.9 [Arabidopsis thaliana]		

Seq. No.	53602	Seq. ID	OJ991215_13.0419.C23
Gene No.	112740	Strand	-
Start	3964	End	7461
Name	OJ991215_13.0419.C23.o2.tc	Method	TBLASTX:Cress
Start	3970	End	4323
GI	none	Score	108
Exons	3970..4323, 4097..4261		

Seq. No.	53602	Seq. ID	OJ991215_13.0419.C23
Gene No.	112740	Strand	-
Start	3964	End	7461
Name	OJ991215_13.0419.C23.o2.tm	Method	TBLASTX:Maize
Start	4120	End	4698
GI	none	Score	168
Exons	4120..4407, 4435..4698		

Seq. No.	53602	Seq. ID	OJ991215_13.0419.C23
Gene No.	112740	Strand	-
Start	3964	End	7461
Name	OJ991215_13.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	4405	End	7461
GI	none	Score	210
Exons	4405..4656, 4415..4654, 4429..4656, 4669..4713, 4814..5008, 4815..5003, 5092..5214, 5115..5213, 7207..7461, 7208..7450		

Seq. No.	53602	Seq. ID	OJ991215_13.0419.C23
Gene No.	112740	Strand	-
Start	3964	End	7461
Name	OJ991215_13.0419.C23.o3.tc	Method	TBLASTX:Cress
Start	4607	End	5210
GI	none	Score	49
Exons	4607..4651, 4609..4653, 4667..4699, 4669..4713, 4791..5003, 4796..5008, 5091..5210		

Seq. No.	53602	Seq. ID	OJ991215_13.0419.C23
Gene No.	112740	Strand	-
Start	3964	End	7461
Name	OJ991215_13.0419.C23.o1.tc	Method	TBLASTX:Cress
Start	7210	End	7461
GI	none	Score	247
Exons	7210..7461, 7223..7450		

Seq. No.	53603	Seq. ID	OJ991215_13.0419.C24
Gene No.	112741	Strand	-
Start	431	End	743
Name	OJ991215_13.0419.C24.o1.gp	Method	AAT/GAP
Start	431	End	743
GI	60013_1.R1084	Score	594
Exons	431..743		
GI Descrip.	'5734616/dbj|AP000391.1|AP000391 8.0e-61 Oryza sativa genomic DNA, chromosome 6, clone:P0538C01'		

Seq. No.	53603	Seq. ID	OJ991215_13.0419.C24
Gene No.	112741	Strand	-
Start	431	End	743
Name	OJ991215_13.0419.C24.o1.gs	Method	GENSCAN
Start	435	End	543
GI	none	Score	.94
Exons	435..543		

Seq. No.	53603	Seq. ID	OJ991215_13.0419.C24
Gene No.	112742	Strand	-
Start	1842	End	2069
Name	OJ991215_13.0419.C24.o2.gs	Method	GENSCAN
Start	1842	End	2069
GI	none	Score	.66
Exons	1842..2069		

Seq. No.	53603	Seq. ID	OJ991215_13.0419.C24
Gene No.	112743	Strand	-
Start	4199	End	4618
Name	OJ991215_13.0419.C24.o1.np	Method	AAT/NAP
Start	4199	End	4618
GI	6539570	Score	70
Exons	4199..4278, 4426..4618		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	53604	Seq. ID	OJ991215_13.0419.C27
Gene No.	112744	Strand	+
Start	88	End	829
Name	OJ991215_13.0419.C27.o1.gs	Method	GENSCAN
Start	88	End	829
GI	none	Score	.81
Exons	88..156, 197..288, 303..551, 736..829		

Seq. No.	53604	Seq. ID	OJ991215_13.0419.C27
Gene No.	112745	Strand	-
Start	745	End	4315
Name	OJ991215_13.0419.C27.o1.np	Method	AAT/NAP
Start	745	End	4315
GI	5852172	Score	128
Exons	745..926, 4258..4315		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	53605	Seq. ID	OJ991215_13.0419.C28
Gene No.	112746	Strand	+
Start	857	End	955
Name	OJ991215_13.0419.C28.o1.gs	Method	GENSCAN
Start	857	End	955

GI	none	Score	.68
Exons	857..955		

Seq. No.	53605	Seq. ID	OJ991215_13.0419.C28
Gene No.	112747	Strand	+
Start	2384	End	7063
Name	OJ991215_13.0419.C28.o2.gs	Method	GENSCAN
Start	2384	End	7063
GI	none	Score	.85
Exons	2384..3313, 3319..3903, 4036..4081, 4896..5026, 5425..5446, 5544..5814, 5867..6014, 6232..6287, 6330..6595, 7008..7063		

Seq. No.	53605	Seq. ID	OJ991215_13.0419.C28
Gene No.	112747	Strand	+
Start	2384	End	7063
Name	OJ991215_13.0419.C28.o1.np	Method	AAT/NAP
Start	2447	End	3924
GI	3860263	Score	1379
Exons	2447..3924		
GI Descrip.	(AC005824) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	53605	Seq. ID	OJ991215_13.0419.C28
Gene No.	112747	Strand	+
Start	2384	End	7063
Name	OJ991215_13.0419.C28.o1.ts	Method	TBLASTX:Soybean
Start	2502	End	3903
GI	none	Score	36
Exons	2502..2525, 2537..2932, 2537..2809, 2590..2910, 2947..3165, 2948..3235, 3203..3349, 3229..3348, 3349..3441, 3354..3440, 3460..3828, 3462..3827, 3835..3903, 3855..3902		

Seq. No.	53605	Seq. ID	OJ991215_13.0419.C28
Gene No.	112747	Strand	+
Start	2384	End	7063
Name	OJ991215_13.0419.C28.o3.tc	Method	TBLASTX:Cress
Start	2675	End	3031
GI	none	Score	156
Exons	2675..2818, 2686..2823, 2939..3031		

Seq. No.	53605	Seq. ID	OJ991215_13.0419.C28
Gene No.	112747	Strand	+
Start	2384	End	7063
Name	OJ991215_13.0419.C28.o2.np	Method	AAT/NAP
Start	2898	End	5781
GI	3608155	Score	149
Exons	2898..2962, 5493..5781		
GI Descrip.	(AC005314) putative pre-mRNA splicing factor RNA helicase [Arabidopsis thaliana]		

Seq. No.	53605	Seq. ID	OJ991215_13.0419.C28
Gene No.	112747	Strand	+
Start	2384	End	7063
Name	OJ991215_13.0419.C28.o2.tw	Method	TBLASTX:Wheat
Start	2938	End	3235
GI	none	Score	134
Exons	2938..3138, 2938..3234, 2942..3235		

Seq. No.	53605	Seq. ID	OJ991215_13.0419.C28
Gene No.	112747	Strand	+
Start	2384	End	7063
Name	OJ991215_13.0419.C28.o3.tm	Method	TBLASTX:Maize
Start	2946	End	3214
GI	none	Score	63
Exons	2946..2990, 2947..3162, 2948..3214, 3122..3202		

Seq. No.	53605	Seq. ID	OJ991215_13.0419.C28
Gene No.	112747	Strand	+
Start	2384	End	7063
Name	OJ991215_13.0419.C28.o2.tc	Method	TBLASTX:Cress
Start	3032	End	3343
GI	none	Score	206
Exons	3032..3256, 3043..3165, 3236..3343		

Seq. No.	53605	Seq. ID	OJ991215_13.0419.C28
Gene No.	112747	Strand	+
Start	2384	End	7063
Name	OJ991215_13.0419.C28.o1.tm	Method	TBLASTX:Maize
Start	3215	End	3642
GI	none	Score	205
Exons	3215..3349, 3217..3372, 3348..3440, 3349..3444, 3362..3460, 3453..3641, 3454..3642		

Seq. No.	53605	Seq. ID	OJ991215_13.0419.C28
Gene No.	112747	Strand	+
Start	2384	End	7063
Name	OJ991215_13.0419.C28.o1.tc	Method	TBLASTX:Cress
Start	3460	End	3831
GI	none	Score	346
Exons	3460..3831, 3471..3818		

Seq. No.	53605	Seq. ID	OJ991215_13.0419.C28
Gene No.	112747	Strand	+
Start	2384	End	7063
Name	OJ991215_13.0419.C28.o1.tw	Method	TBLASTX:Wheat
Start	3495	End	3846
GI	none	Score	552
Exons	3495..3845, 3496..3846		

Seq. No.	53605	Seq. ID	OJ991215_13.0419.C28
Gene No.	112747	Strand	+
Start	2384	End	7063
Name	OJ991215_13.0419.C28.o2.tm	Method	TBLASTX:Maize
Start	3658	End	3879
GI	none	Score	363
Exons	3658..3879, 3660..3878		

Seq. No.	53605	Seq. ID	OJ991215_13.0419.C28
Gene No.	112747	Strand	+
Start	2384	End	7063
Name	OJ991215_13.0419.C28.o4.tm	Method	TBLASTX:Maize
Start	5564	End	5782
GI	none	Score	181
Exons	5564..5686, 5572..5685, 5698..5781, 5699..5782		

Seq. No.	53605	Seq. ID	OJ991215_13.0419.C28
Gene No.	112747	Strand	+
Start	2384	End	7063
Name	OJ991215_13.0419.C28.o4.tc	Method	TBLASTX:Cress
Start	5566	End	5782
GI	none	Score	138
Exons	5566..5688, 5567..5689, 5698..5781, 5699..5782		

Seq. No.	53606	Seq. ID	OJ991215_13.0419.C29
Gene No.	112748	Strand	+
Start	474	End	810
Name	OJ991215_13.0419.C29.o1.gs	Method	GENSCAN
Start	474	End	810
GI	none	Score	.62
Exons	474..714, 733..810		

Seq. No.	53607	Seq. ID	OJ991215_13.0419.C30
Gene No.	112749	Strand	+
Start	228	End	1420
Name	OJ991215_13.0419.C30.o1.gs	Method	GENSCAN
Start	228	End	1420
GI	none	Score	.49
Exons	228..397, 1353..1420		

Seq. No.	53608	Seq. ID	OJ991215_13.0419.C35
Gene No.	112750	Strand	+
Start	681	End	1125
Name	OJ991215_13.0419.C35.o1.gs	Method	GENSCAN
Start	681	End	1125
GI	none	Score	.58
Exons	681..683, 1001..1125		

Seq. No.	53609	Seq. ID	OJ991215_13.0419.C38
Gene No.	112751	Strand	+
Start	1	End	936
Name	OJ991215_13.0419.C38.o1.np	Method	AAT/NAP
Start	1	End	936
GI	1709923	Score	341
Exons	1..26, 362..541, 695..936		
GI Descrip.	PHOSPHORIBOSYLGLYCINAMIDE FORMYLTRANSFERASE PRECURSOR (GART) (GAR TRANSFORMYLASE) (5'-PHOSPHORIBOSYLGLYCINAMIDE TRANSFORMYLASE) gi|7433568|pir||T11574 phosphoribosylglycinamide formyltransferase (EC 2.1.2.2) - cowpea gi|984818|gb|AAA75367.1| (U30875) glycinamide ribonucleotide transformylase (GART) [Vigna unguiculata]		

Seq. No.	53609	Seq. ID	OJ991215_13.0419.C38
Gene No.	112752	Strand	-
Start	1085	End	1707
Name	OJ991215_13.0419.C38.o2.tm	Method	TBLASTX:Maize
Start	357	End	532
GI	none	Score	238
Exons	357..518, 362..532, 375..530		

Seq. No.	53609	Seq. ID	OJ991215_13.0419.C38
Gene No.	112752	Strand	-
Start	1085	End	1707

Name	OJ991215_13.0419.C38.o2.tc	Method	TBLASTX:Cress
Start	363	End	823
GI	none	Score	251
Exons	363..545, 363..518, 374..547, 692..823, 693..821		

Seq. No.	53609	Seq. ID	OJ991215_13.0419.C38
Gene No.	112752	Strand	-
Start	1085	End	1707
Name	OJ991215_13.0419.C38.o2.ts	Method	TBLASTX:Soybean
Start	363	End	829
GI	none	Score	250
Exons	363..545, 363..521, 395..556, 443..541, 692..829, 693..821, 695..823		

Seq. No.	53609	Seq. ID	OJ991215_13.0419.C38
Gene No.	112752	Strand	-
Start	1085	End	1707
Name	OJ991215_13.0419.C38.o1.gs	Method	GENSCAN
Start	1085	End	1642
GI	none	Score	.74
Exons	1085..1642		

Seq. No.	53609	Seq. ID	OJ991215_13.0419.C38
Gene No.	112752	Strand	-
Start	1085	End	1707
Name	OJ991215_13.0419.C38.o2.np	Method	AAT/NAP
Start	1088	End	1707
GI	3355308	Score	378
Exons	1088..1707		
GI Descrip.	(AJ009695) wall-associated kinase 4 [Arabidopsis thaliana]		

Seq. No.	53609	Seq. ID	OJ991215_13.0419.C38
Gene No.	112752	Strand	-
Start	1085	End	1707
Name	OJ991215_13.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	1235	End	1707
GI	none	Score	65
Exons	1235..1456, 1265..1438, 1463..1705, 1464..1706, 1501..1707		

Seq. No.	53609	Seq. ID	OJ991215_13.0419.C38
Gene No.	112752	Strand	-
Start	1085	End	1707
Name	OJ991215_13.0419.C38.o1.tc	Method	TBLASTX:Cress
Start	1238	End	1706
GI	none	Score	85
Exons	1238..1456, 1239..1424, 1460..1705, 1479..1706		

Seq. No.	53609	Seq. ID	OJ991215_13.0419.C38
Gene No.	112752	Strand	-
Start	1085	End	1707
Name	OJ991215_13.0419.C38.o1.ts	Method	TBLASTX:Soybean
Start	1394	End	1705
GI	none	Score	169
Exons	1394..1705, 1461..1694, 1469..1696		

Seq. No.	53609	Seq. ID	OJ991215_13.0419.C38
Gene No.	112752	Strand	-

Start	1085	End	1707
Name	OJ991215_13.0419.C38.o1.tw	Method	TBLASTX:Wheat
Start	1460	End	1706
GI	none	Score	77
Exons	1460..1594, 1461..1595, 1595..1705, 1596..1706		

Seq. No.	53610	Seq. ID	OJ991215_13.0419.C39
Gene No.	112753	Strand	-
Start	1222	End	2832
Name	OJ991215_13.0419.C39.o1.gs	Method	GENSCAN
Start	1222	End	2832
GI	none	Score	.5
Exons	1222..1343, 1724..1846, 1994..2413, 2496..2832		

Seq. No.	53611	Seq. ID	OJ991215_13.0419.C40
Gene No.	112754	Strand	+
Start	1	End	2544
Name	OJ991215_13.0419.C40.o1.np	Method	AAT/NAP
Start	1	End	2544
GI	5042463	Score	196
Exons	1..41, 838..1059, 1745..1888, 1934..2035, 2506..2544		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		

Seq. No.	53611	Seq. ID	OJ991215_13.0419.C40
Gene No.	112755	Strand	-
Start	779	End	2491
Name	OJ991215_13.0419.C40.o1.gs	Method	GENSCAN
Start	779	End	2491
GI	none	Score	.43
Exons	779..1018, 1811..1954, 2240..2290, 2471..2491		

Seq. No.	53612	Seq. ID	OJ991215_13.0419.C41
Gene No.	112756	Strand	+
Start	1664	End	1806
Name	OJ991215_13.0419.C41.o1.gs	Method	GENSCAN
Start	1664	End	1806
GI	none	Score	.69
Exons	1664..1806		

Seq. No.	53612	Seq. ID	OJ991215_13.0419.C41
Gene No.	112757	Strand	+
Start	3890	End	4351
Name	OJ991215_13.0419.C41.o2.gs	Method	GENSCAN
Start	3890	End	4351
GI	none	Score	.43
Exons	3890..4351		

Seq. No.	53612	Seq. ID	OJ991215_13.0419.C41
Gene No.	112758	Strand	-
Start	9186	End	10387
Name	OJ991215_13.0419.C41.o1.np	Method	AAT/NAP
Start	9186	End	10387
GI	6587817	Score	726
Exons	9186..10387		
GI Descrip.	(AC010924) Contains similarity to gb|AJ009696 wall-associated kinase 1 from Arabidopsis thaliana and contains a protein kinase PF|00069 domain.		

Seq. No.	53612	Seq. ID	OJ991215_13.0419.C41
Gene No.	112758	Strand	-
Start	9186	End	10387
Name	OJ991215_13.0419.C41.o1.tm	Method	TBLASTX:Maize
Start	9327	End	10283
GI	none	Score	135
Exons	9327..9482, 9573..9890, 9576..9875, 9908..10093, 9909..10103, 9909..10118, 9925..10116, 10071..10283, 10099..10212		

Seq. No.	53612	Seq. ID	OJ991215_13.0419.C41
Gene No.	112758	Strand	-
Start	9186	End	10387
Name	OJ991215_13.0419.C41.o1.tc	Method	TBLASTX:Cress
Start	9351	End	10283
GI	none	Score	150
Exons	9351..9476, 9498..9899, 9579..9890, 9911..10063, 9914..10045, 9915..10112, 9919..10101, 10113..10283		

Seq. No.	53612	Seq. ID	OJ991215_13.0419.C41
Gene No.	112758	Strand	-
Start	9186	End	10387
Name	OJ991215_13.0419.C41.o2.tw	Method	TBLASTX:Wheat
Start	9567	End	9839
GI	none	Score	69
Exons	9567..9707, 9711..9839, 9724..9837		

Seq. No.	53612	Seq. ID	OJ991215_13.0419.C41
Gene No.	112758	Strand	-
Start	9186	End	10387
Name	OJ991215_13.0419.C41.o1.ts	Method	TBLASTX:Soybean
Start	9576	End	10347
GI	none	Score	111
Exons	9576..9902, 9579..9890, 9915..10094, 9982..10083, 10113..10262, 10124..10192, 10210..10347		

Seq. No.	53612	Seq. ID	OJ991215_13.0419.C41
Gene No.	112758	Strand	-
Start	9186	End	10387
Name	OJ991215_13.0419.C41.o1.tw	Method	TBLASTX:Wheat
Start	9840	End	10260
GI	none	Score	181
Exons	9840..9899, 9903..10112, 9904..10119, 10075..10257, 10113..10256, 10123..10260		

Seq. No.	53613	Seq. ID	OJ991215_13.0419.C42
Gene No.	112759	Strand	+
Start	2234	End	2610
Name	OJ991215_13.0419.C42.o2.gs	Method	GENSCAN
Start	2234	End	2610
GI	none	Score	.61
Exons	2234..2434, 2503..2610		

Seq. No.	53613	Seq. ID	OJ991215_13.0419.C42
Gene No.	112760	Strand	+
Start	3710	End	4694
Name	OJ991215_13.0419.C42.o3.gs	Method	GENSCAN

Start	3710	End	4694
GI	none	Score	.42
Exons	3710..4601, 4626..4694		

Seq. No.	53613	Seq. ID	OJ991215_13.0419.C42
Gene No.	112761	Strand	-
Start	513	End	4114
Name	OJ991215_13.0419.C42.o1.gs	Method	GENSCAN
Start	513	End	1705
GI	none	Score	.93
Exons	513..662, 814..1705		

Seq. No.	53613	Seq. ID	OJ991215_13.0419.C42
Gene No.	112761	Strand	-
Start	513	End	4114
Name	OJ991215_13.0419.C42.o2.np	Method	AAT/NAP
Start	553	End	1705
GI	4826399	Score	229
Exons	553..662, 814..1321, 1360..1705		
GI Descrip.	(AJ012423) wall-associated kinase 2 [Arabidopsis thaliana]		

Seq. No.	53613	Seq. ID	OJ991215_13.0419.C42
Gene No.	112761	Strand	-
Start	513	End	4114
Name	OJ991215_13.0419.C42.o1.tm	Method	TBLASTX:Maize
Start	1466	End	4114
GI	none	Score	35
Exons	1466..1612, 3695..3715, 3759..3851, 3776..3829, 3853..3927, 3854..3931, 3928..4110, 3935..4114		

Seq. No.	53614	Seq. ID	OJ991215_13.0419.C43
Gene No.	112762	Strand	+
Start	1	End	2017
Name	OJ991215_13.0419.C43.o1.np	Method	AAT/NAP
Start	1	End	2017
GI	6665543	Score	689
Exons	1..887, 1992..2017		
GI Descrip.	(AC013289) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	53614	Seq. ID	OJ991215_13.0419.C43
Gene No.	112762	Strand	+
Start	1	End	2017
Name	OJ991215_13.0419.C43.o1.gs	Method	GENSCAN
Start	78	End	977
GI	none	Score	.62
Exons	78..977		

Seq. No.	53614	Seq. ID	OJ991215_13.0419.C43
Gene No.	112763	Strand	-
Start	2054	End	2351
Name	OJ991215_13.0419.C43.o1.tc	Method	TBLASTX:Cress
Start	3	End	809
GI	none	Score	302
Exons	3..251, 44..232, 267..611, 275..571, 618..809		

Seq. No.	53614	Seq. ID	OJ991215_13.0419.C43
Gene No.	112763	Strand	-

Start	2054	End	2351
Name	OJ991215_13.0419.C43.o1.ts	Method	TBLASTX:Soybean
Start	3	End	656
GI	none	Score	82
Exons	3..80, 72..251, 107..247, 255..656, 275..595		

Seq. No.	53614	Seq. ID	OJ991215_13.0419.C43
Gene No.	112763	Strand	-
Start	2054	End	2351
Name	OJ991215_13.0419.C43.o1.tw	Method	TBLASTX:Wheat
Start	3	End	326
GI	none	Score	370
Exons	3..254, 44..253, 120..257, 260..325, 261..326		

Seq. No.	53614	Seq. ID	OJ991215_13.0419.C43
Gene No.	112763	Strand	-
Start	2054	End	2351
Name	OJ991215_13.0419.C43.o1.tm	Method	TBLASTX:Maize
Start	9	End	809
GI	none	Score	291
Exons	9..251, 62..241, 276..611, 290..595, 618..809		

Seq. No.	53614	Seq. ID	OJ991215_13.0419.C43
Gene No.	112763	Strand	-
Start	2054	End	2351
Name	OJ991215_13.0419.C43.o2.tw	Method	TBLASTX:Wheat
Start	327	End	599
GI	none	Score	125
Exons	327..446, 329..442, 458..598, 459..599		

Seq. No.	53614	Seq. ID	OJ991215_13.0419.C43
Gene No.	112763	Strand	-
Start	2054	End	2351
Name	OJ991215_13.0419.C43.o2.gs	Method	GENSCAN
Start	2054	End	2212
GI	none	Score	.47
Exons	2054..2212		

Seq. No.	53614	Seq. ID	OJ991215_13.0419.C43
Gene No.	112763	Strand	-
Start	2054	End	2351
Name	OJ991215_13.0419.C43.o2.tm	Method	TBLASTX:Maize
Start	2060	End	2351
GI	none	Score	96
Exons	2060..2158, 2153..2350, 2154..2351		

Seq. No.	53615	Seq. ID	OJ991215_13.0419.C44
Gene No.	112764	Strand	+
Start	1334	End	8401
Name	OJ991215_13.0419.C44.o1.gs	Method	GENSCAN
Start	1334	End	8401
GI	none	Score	.81
Exons	1334..1456, 2742..2836, 2936..3789, 5225..5353, 5875..6015, 7188..8401		

Seq. No.	53615	Seq. ID	OJ991215_13.0419.C44
Gene No.	112764	Strand	+

Start	1334	End	8401
Name	OJ991215_13.0419.C44.o1.np	Method	AAT/NAP
Start	2902	End	8398
GI	4826399	Score	945
Exons	2902..3641, 3671..3789, 5225..5349, 6951..7026, 7239..8398		
GI Descrip.	(AJ012423) wall-associated kinase 2 [Arabidopsis thaliana]		

Seq. No.	53615	Seq. ID	OJ991215_13.0419.C44
Gene No.	112765	Strand	+
Start	14092	End	19329
Name	OJ991215_13.0419.C44.o3.gs	Method	GENSCAN
Start	14092	End	19329
GI	none	Score	.76
Exons	14092..14158, 14332..14550, 15126..15230, 18691..18789, 19214..19329		

Seq. No.	53615	Seq. ID	OJ991215_13.0419.C44
Gene No.	112765	Strand	+
Start	14092	End	19329
Name	OJ991215_13.0419.C44.o3.np	Method	AAT/NAP
Start	17818	End	19123
GI	6815099	Score	93
Exons	17818..17899, 19007..19123		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	53615	Seq. ID	OJ991215_13.0419.C44
Gene No.	112766	Strand	-
Start	554	End	18833
Name	OJ991215_13.0419.C44.o2.np	Method	AAT/NAP
Start	554	End	18833
GI	6175155	Score	33
Exons	554..668, 9289..9331, 18703..18833		
GI Descrip.	(AC010796) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	53615	Seq. ID	OJ991215_13.0419.C44
Gene No.	112766	Strand	-
Start	554	End	18833
Name	OJ991215_13.0419.C44.o1.tc	Method	TBLASTX:Cress
Start	2977	End	8224
GI	none	Score	112
Exons	2977..3057, 3723..3788, 5284..5352, 5946..6005, 7262..7474, 7475..7672, 7486..7656, 7688..8014, 7699..7866, 7912..7995, 8105..8224		

Seq. No.	53615	Seq. ID	OJ991215_13.0419.C44
Gene No.	112766	Strand	-
Start	554	End	18833
Name	OJ991215_13.0419.C44.o1.ts	Method	TBLASTX:Soybean
Start	7264	End	8014
GI	none	Score	67
Exons	7264..7377, 7286..7348, 7324..7548, 7493..7672, 7528..7656, 7532..7675, 7533..7679, 7685..8014, 7711..7866, 7912..8013		

Seq. No.	53615	Seq. ID	OJ991215_13.0419.C44
Gene No.	112766	Strand	-
Start	554	End	18833
Name	OJ991215_13.0419.C44.o1.tm	Method	TBLASTX:Maize

Start	7271	End	8224
GI	none	Score	118
Exons	7271..7534, 7375..7467, 7469..7690, 7474..7659, 7697..8011, 7711..7854, 7912..8010, 8105..8224		

Seq. No.	53615	Seq. ID	OJ991215_13.0419.C44
Gene No.	112766	Strand	-
Start	554	End	18833
Name	OJ991215_13.0419.C44.o1.tw	Method	TBLASTX:Wheat
Start	7330	End	7747
GI	none	Score	56
Exons	7330..7473, 7330..7512, 7331..7474, 7474..7674, 7475..7678, 7481..7675, 7489..7680, 7569..7682, 7676..7747, 7687..7740		

Seq. No.	53615	Seq. ID	OJ991215_13.0419.C44
Gene No.	112766	Strand	-
Start	554	End	18833
Name	OJ991215_13.0419.C44.o2.tw	Method	TBLASTX:Wheat
Start	7748	End	8014
GI	none	Score	119
Exons	7748..7876, 7880..8014, 7912..8013		

Seq. No.	53615	Seq. ID	OJ991215_13.0419.C44
Gene No.	112766	Strand	-
Start	554	End	18833
Name	OJ991215_13.0419.C44.o2.gs	Method	GENSCAN
Start	9065	End	12160
GI	none	Score	.71
Exons	9065..9287, 10527..10634, 11890..11992, 12007..12160		

Seq. No.	53616	Seq. ID	OJ991215_13.0419.C45
Gene No.	112767	Strand	-
Start	1527	End	6110
Name	OJ991215_13.0419.C45.o1.gs	Method	GENSCAN
Start	1527	End	6110
GI	none	Score	.83
Exons	1527..2615, 2707..2770, 2847..2965, 3051..3122, 3321..3431, 5164..5325, 5625..5717, 6009..6110		

Seq. No.	53616	Seq. ID	OJ991215_13.0419.C45
Gene No.	112767	Strand	-
Start	1527	End	6110
Name	OJ991215_13.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	2478	End	3089
GI	none	Score	95
Exons	2478..2615, 2482..2616, 2707..2769, 2846..2965, 2849..2965, 3048..3089		

Seq. No.	53616	Seq. ID	OJ991215_13.0419.C45
Gene No.	112767	Strand	-
Start	1527	End	6110
Name	OJ991215_13.0419.C45.o1.tw	Method	TBLASTX:Wheat
Start	2847	End	3129
GI	none	Score	103
Exons	2847..2966, 2849..2965, 3048..3125, 3048..3128, 3061..3129		

Seq. No.	53617	Seq. ID	OJ991215_13.0419.C46

Gene No.	112768	Strand	-
Start	296	End	2337
Name	OJ991215_13.0419.C46.o1.gs	Method	GENSCAN
Start	296	End	2337
GI	none	Score	.77
Exons	296..646, 1014..1225, 1389..1677, 2249..2337		

Seq. No.	53617	Seq. ID	OJ991215_13.0419.C46
Gene No.	112768	Strand	-
Start	296	End	2337
Name	OJ991215_13.0419.C46.o1.tm	Method	TBLASTX:Maize
Start	983	End	1676
GI	none	Score	107
Exons	983..1132, 984..1145, 1122..1208, 1160..1225, 1416..1514, 1623..1676		

Seq. No.	53618	Seq. ID	OJ991215_13.0419.C48
Gene No.	112769	Strand	+
Start	876	End	1619
Name	OJ991215_13.0419.C48.o1.gs	Method	GENSCAN
Start	876	End	1455
GI	none	Score	.77
Exons	876..1455		

Seq. No.	53618	Seq. ID	OJ991215_13.0419.C48
Gene No.	112769	Strand	+
Start	876	End	1619
Name	OJ991215_13.0419.C48.o2.np	Method	AAT/NAP
Start	1194	End	1619
GI	4680199	Score	210
Exons	1194..1455, 1546..1619		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	53618	Seq. ID	OJ991215_13.0419.C48
Gene No.	112770	Strand	-
Start	1	End	1211
Name	OJ991215_13.0419.C48.o1.np	Method	AAT/NAP
Start	1	End	1211
GI	91210	Score	108
Exons	1..320, 859..1211		
GI Descrip.	proline-rich protein MP3 - mouse (fragment)		

Seq. No.	53618	Seq. ID	OJ991215_13.0419.C48
Gene No.	112771	Strand	
Start	1152	End	1615
Name	OJ991215_13.0419.C48.o1.tw	Method	TBLASTX:Wheat
Start	1152	End	1457
GI	none	Score	332
Exons	1152..1457, 1198..1449, 1211..1456, 1335..1457		

Seq. No.	53618	Seq. ID	OJ991215_13.0419.C48
Gene No.	112771	Strand	
Start	1152	End	1615
Name	OJ991215_13.0419.C48.o1.tm	Method	TBLASTX:Maize
Start	1164	End	1421
GI	none	Score	201
Exons	1164..1421, 1319..1405		

Seq. No.	53618	Seq. ID	OJ991215_13.0419.C48
Gene No.	112771	Strand	
Start	1152	End	1615
Name	OJ991215_13.0419.C48.o1.ts	Method	TBLASTX:Soybean
Start	1194	End	1615
GI	none	Score	172
Exons	1194..1457, 1571..1615		

Seq. No.	53619	Seq. ID	OJ991215_13.0419.C49
Gene No.	112772	Strand	+
Start	148	End	771
Name	OJ991215_13.0419.C49.o1.tw	Method	TBLASTX:Wheat
Start	60	End	439
GI	none	Score	120
Exons	60..140, 61..177, 154..438, 228..425, 257..439		

Seq. No.	53619	Seq. ID	OJ991215_13.0419.C49
Gene No.	112772	Strand	+
Start	148	End	771
Name	OJ991215_13.0419.C49.o1.gs	Method	GENSCAN
Start	148	End	726
GI	none	Score	.99
Exons	148..726		

Seq. No.	53619	Seq. ID	OJ991215_13.0419.C49
Gene No.	112772	Strand	+
Start	148	End	771
Name	OJ991215_13.0419.C49.o1.np	Method	AAT/NAP
Start	148	End	771
GI	6630696	Score	960
Exons	148..771		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	53619	Seq. ID	OJ991215_13.0419.C49
Gene No.	112772	Strand	+
Start	148	End	771
Name	OJ991215_13.0419.C49.o1.tm	Method	TBLASTX:Maize
Start	190	End	500
GI	none	Score	302
Exons	190..498, 229..495, 237..500		

Seq. No.	53620	Seq. ID	OJ991215_13.0419.C51
Gene No.	112773	Strand	+
Start	567	End	1402
Name	OJ991215_13.0419.C51.o1.gs	Method	GENSCAN
Start	567	End	1351
GI	none	Score	.43
Exons	567..584, 1181..1351		

Seq. No.	53620	Seq. ID	OJ991215_13.0419.C51
Gene No.	112773	Strand	+
Start	567	End	1402
Name	OJ991215_13.0419.C51.o1.np	Method	AAT/NAP
Start	871	End	1402

GI	7340924	Score	85
Exons	871..940, 1229..1402		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	53621	Seq. ID	OJ991215_13.0419.C52
Gene No.	112774	Strand	-
Start	1605	End	2836
Name	OJ991215_13.0419.C52.o1.gs	Method	GENSCAN
Start	1605	End	2836
GI	none	Score	.44
Exons	1605..1685, 2354..2472, 2731..2836		

Seq. No.	53622	Seq. ID	OJ991215_13.0419.C53
Gene No.	112775	Strand	-
Start	779	End	837
Name	OJ991215_13.0419.C53.o1.gs	Method	GENSCAN
Start	779	End	837
GI	none	Score	.56
Exons	779..837		

Seq. No.	53623	Seq. ID	OJ991215_13.0419.C54
Gene No.	112776	Strand	+
Start	1503	End	1867
Name	OJ991215_13.0419.C54.o2.gp	Method	AAT/GAP
Start	1503	End	1867
GI	uC-osf1cyp108a10b1	Score	671
Exons	1503..1867		
GI Descrip.	'5803242/dbj|AP000399.1|AP000399 1.0e-39 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		

Seq. No.	53623	Seq. ID	OJ991215_13.0419.C54
Gene No.	112777	Strand	+
Start	3890	End	4362
Name	OJ991215_13.0419.C54.o4.gp	Method	AAT/GAP
Start	3890	End	4362
GI	none	Score	742
Exons	3890..4362		

Seq. No.	53623	Seq. ID	OJ991215_13.0419.C54
Gene No.	112778	Strand	-
Start	3463	End	3635
Name	OJ991215_13.0419.C54.o2.gs	Method	GENSCAN
Start	3463	End	3635
GI	none	Score	.79
Exons	3463..3635		

Seq. No.	53624	Seq. ID	OJ991215_13.0419.C55
Gene No.	112779	Strand	-
Start	175	End	2487
Name	OJ991215_13.0419.C55.o1.np	Method	AAT/NAP
Start	175	End	2397
GI	7486830	Score	512
Exons	175..440, 523..694, 785..910, 1831..2397		
GI Descrip.	hypothetical protein T10I14.190 - Arabidopsis thaliana gi|2832686|emb|CAA16786.1| (AL021712) putative protein [Arabidopsis thaliana] gi|7269082|emb|CAB79191.1| (AL161557) putative protein [Arabidopsis thaliana]		

Seq. No.	53624	Seq. ID	OJ991215_13.0419.C55
Gene No.	112779	Strand	-
Start	175	End	2487
Name	OJ991215_13.0419.C55.o1.tm	Method	TBLASTX:Maize
Start	232	End	919
GI	none	Score	144
Exons	232..420, 242..436, 244..438, 524..709, 542..697, 778..858,	244..315, 263..487, 515..709, 782..919, 786..899	

Seq. No.	53624	Seq. ID	OJ991215_13.0419.C55
Gene No.	112779	Strand	-
Start	175	End	2487
Name	OJ991215_13.0419.C55.o1.gs	Method	GENSCAN
Start	244	End	2397
GI	none	Score	.89
Exons	244..440, 523..694, 785..896,	1790..2397	

Seq. No.	53624	Seq. ID	OJ991215_13.0419.C55
Gene No.	112779	Strand	-
Start	175	End	2487
Name	OJ991215_13.0419.C55.o1.tc	Method	TBLASTX:Cress
Start	244	End	832
GI	none	Score	66
Exons	244..345, 244..399, 244..315, 644..697, 782..832	263..352, 530..697, 530..697,	

Seq. No.	53624	Seq. ID	OJ991215_13.0419.C55
Gene No.	112779	Strand	-
Start	175	End	2487
Name	OJ991215_13.0419.C55.o1.ts	Method	TBLASTX:Soybean
Start	244	End	904
GI	none	Score	107
Exons	244..315, 306..407, 522..695, 782..904, 786..890	526..687, 530..709, 533..697,	

Seq. No.	53624	Seq. ID	OJ991215_13.0419.C55
Gene No.	112779	Strand	-
Start	175	End	2487
Name	OJ991215_13.0419.C55.o1.gp	Method	AAT/GAP
Start	2038	End	2487
GI	none	Score	850
Exons	2038..2487		

Seq. No.	53625	Seq. ID	OJ991215_13.0419.C56
Gene No.	112780	Strand	+
Start	1227	End	6823
Name	OJ991215_13.0419.C56.o1.gs	Method	GENSCAN
Start	1227	End	6506
GI	none	Score	.53
Exons	1227..1317, 2079..2243, 2851..2956, 4811..5022, 5226..5510, 5606..5972, 6066..6276, 6369..6506		

Seq. No.	53625	Seq. ID	OJ991215_13.0419.C56
Gene No.	112780	Strand	+
Start	1227	End	6823
Name	OJ991215_13.0419.C56.o1.np	Method	AAT/NAP

Start	4818	End	6503
GI	2754849	Score	1711
Exons	4818..5022, 5226..5510, 5606..5972, 6066..6276, 6369..6503		
GI Descrip.	(AF039000) putative serine-glyoxylate aminotransferase [Fritillaria agrestis]		

Seq. No.	53625	Seq. ID	OJ991215_13.0419.C56
Gene No.	112780	Strand	+
Start	1227	End	6823
Name	OJ991215_13.0419.C56.o1.gp	Method	AAT/GAP
Start	5425	End	6823
GI	413_3.R1084	Score	2127
Exons	5425..5510, 5606..5972, 6066..6276, 6369..6823		
GI Descrip.	'2754849 1.0e-133 (AF039000) putative serine-glyoxylate aminotransferase [Fritillaria agrestis]'		

Seq. No.	53625	Seq. ID	OJ991215_13.0419.C56
Gene No.	112781	Strand	+
Start	8701	End	11452
Name	OJ991215_13.0419.C56.o3.gs	Method	GENSCAN
Start	8701	End	11452
GI	none	Score	.6
Exons	8701..8856, 9377..9414, 9431..9700, 10032..10230, 10549..10646, 10964..11163, 11370..11452		

Seq. No.	53625	Seq. ID	OJ991215_13.0419.C56
Gene No.	112782	Strand	-
Start	7243	End	7659
Name	OJ991215_13.0419.C56.o2.tm	Method	TBLASTX:Maize
Start	4102	End	5347
GI	none	Score	72
Exons	4102..4146, 4103..4150, 4104..4148, 4108..4152, 4808..4978, 4809..4985, 4814..4987, 5224..5346, 5225..5347		

Seq. No.	53625	Seq. ID	OJ991215_13.0419.C56
Gene No.	112782	Strand	-
Start	7243	End	7659
Name	OJ991215_13.0419.C56.o1.tc	Method	TBLASTX:Cress
Start	4811	End	6509
GI	none	Score	262
Exons	4811..4978, 4812..4985, 4820..4987, 5224..5358, 5225..5509, 5431..5508, 5598..5840, 5605..5985, 5613..5987, 6063..6185, 6064..6279, 6169..6276, 6368..6502, 6378..6509		

Seq. No.	53625	Seq. ID	OJ991215_13.0419.C56
Gene No.	112782	Strand	-
Start	7243	End	7659
Name	OJ991215_13.0419.C56.o2.tw	Method	TBLASTX:Wheat
Start	4814	End	5431
GI	none	Score	273
Exons	4814..4978, 4821..4985, 5224..5358, 5225..5431		

Seq. No.	53625	Seq. ID	OJ991215_13.0419.C56
Gene No.	112782	Strand	-
Start	7243	End	7659
Name	OJ991215_13.0419.C56.o1.ts	Method	TBLASTX:Soybean
Start	4820	End	6518

GI	none	Score	254
Exons	4820..4978, 4821..4985, 5224..5358, 5225..5509, 5416..5508, 5605..5985, 5616..5996, 6063..6191, 6064..6279, 6240..6275, 6368..6511, 6378..6518		

Seq. No.	53625	Seq. ID	OJ991215_13.0419.C56
Gene No.	112782	Strand	-
Start	7243	End	7659
Name	OJ991215_13.0419.C56.o1.tm	Method	TBLASTX:Maize
Start	5348	End	6448
GI	none	Score	92
Exons	5348..5419, 5416..5499, 5420..5509, 5601..5987, 5605..5985, 6063..6191, 6064..6279, 6064..6276, 6240..6278, 6288..6431, 6368..6448, 6378..6446		

Seq. No.	53625	Seq. ID	OJ991215_13.0419.C56
Gene No.	112782	Strand	-
Start	7243	End	7659
Name	OJ991215_13.0419.C56.o1.tw	Method	TBLASTX:Wheat
Start	5856	End	6446
GI	none	Score	170
Exons	5856..6077, 5857..5973, 6063..6191, 6064..6228, 6232..6276, 6235..6279, 6240..6278, 6327..6446, 6368..6418, 6378..6446		

Seq. No.	53625	Seq. ID	OJ991215_13.0419.C56
Gene No.	112782	Strand	-
Start	7243	End	7659
Name	OJ991215_13.0419.C56.o2.np	Method	AAT/NAP
Start	7234	End	7650
GI	7486422	Score	295
Exons	7234..7650		
GI Descrip.	hypothetical protein F4I1.12 - Arabidopsis thaliana gi|3128177|gb|AAC16081.1| (AC004521) unknown protein [Arabidopsis thaliana]		

Seq. No.	53625	Seq. ID	OJ991215_13.0419.C56
Gene No.	112782	Strand	-
Start	7243	End	7659
Name	OJ991215_13.0419.C56.o2.gs	Method	GENSCAN
Start	7243	End	7650
GI	none	Score	1
Exons	7243..7650		

Seq. No.	53625	Seq. ID	OJ991215_13.0419.C56
Gene No.	112782	Strand	-
Start	7243	End	7659
Name	OJ991215_13.0419.C56.o2.ts	Method	TBLASTX:Soybean
Start	7261	End	7654
GI	none	Score	74
Exons	7261..7437, 7286..7393, 7474..7650, 7586..7654		

Seq. No.	53625	Seq. ID	OJ991215_13.0419.C56
Gene No.	112782	Strand	-
Start	7243	End	7659
Name	OJ991215_13.0419.C56.o2.tc	Method	TBLASTX:Cress
Start	7294	End	7653
GI	none	Score	175

Exons	7294..7437, 7474..7653		
Seq. No.	53625	Seq. ID	OJ991215_13.0419.C56
Gene No.	112782	Strand	-
Start	7243	End	7659
Name	OJ991215_13.0419.C56.o3.tm	Method	TBLASTX:Maize
Start	7375	End	7658
GI	none	Score	155
Exons	7375..7437, 7474..7650, 7486..7650, 7554..7658		
Seq. No.	53625	Seq. ID	OJ991215_13.0419.C56
Gene No.	112782	Strand	-
Start	7243	End	7659
Name	OJ991215_13.0419.C56.o3.tw	Method	TBLASTX:Wheat
Start	7483	End	7659
GI	none	Score	108
Exons	7483..7656, 7495..7659		
Seq. No.	53626	Seq. ID	OJ991215_13.0419.C57
Gene No.	112783	Strand	+
Start	61	End	3225
Name	OJ991215_13.0419.C57.o1.gs	Method	GENSCAN
Start	61	End	3225
GI	none	Score	.49
Exons	61..106, 142..449, 1511..1523, 2390..3225		
Seq. No.	53626	Seq. ID	OJ991215_13.0419.C57
Gene No.	112783	Strand	+
Start	61	End	3225
Name	OJ991215_13.0419.C57.o1.gp	Method	AAT/GAP
Start	1489	End	2817
GI	uC-osrocyp005e09b1	Score	894
Exons	1489..1523, 2390..2817		
GI Descrip.	'4544419/gb|AAD22328.1|AC006955_14 2.0e-23 (AC006955) unknown protein [Arabidopsis thaliana]'		
Seq. No.	53626	Seq. ID	OJ991215_13.0419.C57
Gene No.	112783	Strand	+
Start	61	End	3225
Name	OJ991215_13.0419.C57.o1.np	Method	AAT/NAP
Start	2413	End	3224
GI	4544419	Score	544
Exons	2413..3089, 3126..3224		
GI Descrip.	(AC006955) unknown protein [Arabidopsis thaliana]		
Seq. No.	53626	Seq. ID	OJ991215_13.0419.C57
Gene No.	112784	Strand	-
Start	2974	End	3305
Name	OJ991215_13.0419.C57.o2.gp	Method	AAT/GAP
Start	2974	End	3305
GI	none	Score	597
Exons	2974..3305		
Seq. No.	53626	Seq. ID	OJ991215_13.0419.C57
Gene No.	112785	Strand	-
Start	3559	End	4564
Name	OJ991215_13.0419.C57.o1.tc	Method	TBLASTX:Cress

Start	2550	End	3006
GI	none	Score	268
Exons	2550..2807, 2551..2814, 2824..3006, 2829..3005		

Seq. No.	53626	Seq. ID	OJ991215_13.0419.C57
Gene No.	112785	Strand	-
Start	3559	End	4564
Name	OJ991215_13.0419.C57.o1.tm	Method	TBLASTX:Maize
Start	2550	End	3092
GI	none	Score	164
Exons	2550..2669, 2551..2670, 2586..2675, 2662..2814, 2667..2804, 2820..3092, 2821..3006		

Seq. No.	53626	Seq. ID	OJ991215_13.0419.C57
Gene No.	112785	Strand	-
Start	3559	End	4564
Name	OJ991215_13.0419.C57.o1.ts	Method	TBLASTX:Soybean
Start	2553	End	3006
GI	none	Score	272
Exons	2553..2810, 2554..2829, 2826..3005, 2827..3006		

Seq. No.	53626	Seq. ID	OJ991215_13.0419.C57
Gene No.	112785	Strand	-
Start	3559	End	4564
Name	OJ991215_13.0419.C57.o2.gs	Method	GENSCAN
Start	3559	End	4564
GI	none	Score	.94
Exons	3559..3945, 4505..4564		

Seq. No.	53627	Seq. ID	OJ991215_13.0419.C59
Gene No.	112786	Strand	+
Start	1	End	644
Name	OJ991215_13.0419.C59.o1.np	Method	AAT/NAP
Start	1	End	644
GI	6587818	Score	380
Exons	1..644		
GI Descrip.	(AC010924) Contains similarity to gb|AJ009695 wall-associated kinase 4 from Arabidopsis thaliana and contains a protein kinase PF|00069 domain.		

Seq. No.	53627	Seq. ID	OJ991215_13.0419.C59
Gene No.	112787	Strand	-
Start	984	End	1211
Name	OJ991215_13.0419.C59.o1.tc	Method	TBLASTX:Cress
Start	12	End	569
GI	none	Score	329
Exons	12..347, 17..328, 438..569, 491..550		

Seq. No.	53627	Seq. ID	OJ991215_13.0419.C59
Gene No.	112787	Strand	-
Start	984	End	1211
Name	OJ991215_13.0419.C59.o1.ts	Method	TBLASTX:Soybean
Start	24	End	347
GI	none	Score	340
Exons	24..347, 32..346		

Seq. No.	53627	Seq. ID	OJ991215_13.0419.C59

Gene No.	112787	Strand	-
Start	984	End	1211
Name	OJ991215_13.0419.C59.o1.tw	Method	TBLASTX:Wheat
Start	24	End	332
GI	none	Score	232
Exons	24..332, 41..187, 230..331		

Seq. No.	53627	Seq. ID	OJ991215_13.0419.C59
Gene No.	112787	Strand	-
Start	984	End	1211
Name	OJ991215_13.0419.C59.o1.tm	Method	TBLASTX:Maize
Start	30	End	557
GI	none	Score	315
Exons	30..344, 44..343, 73..354, 375..455, 438..557		

Seq. No.	53627	Seq. ID	OJ991215_13.0419.C59
Gene No.	112787	Strand	-
Start	984	End	1211
Name	OJ991215_13.0419.C59.o2.gs	Method	GENSCAN
Start	984	End	1211
GI	none	Score	.95
Exons	984..1084, 1151..1211		

Seq. No.	53628	Seq. ID	OJ991215_13.0419.C61
Gene No.	112788	Strand	-
Start	242	End	3563
Name	OJ991215_13.0419.C61.o1.gs	Method	GENSCAN
Start	242	End	3563
GI	none	Score	.46
Exons	242..319, 1573..1656, 3456..3563		

Seq. No.	53629	Seq. ID	OJ991215_13.0419.C62
Gene No.	112789	Strand	+
Start	341	End	1321
Name	OJ991215_13.0419.C62.o1.np	Method	AAT/NAP
Start	341	End	895
GI	7339484	Score	259
Exons	341..895		
GI Descrip.	(AL162459) DNA-binding protein-like [Arabidopsis thaliana]		

Seq. No.	53629	Seq. ID	OJ991215_13.0419.C62
Gene No.	112789	Strand	+
Start	341	End	1321
Name	OJ991215_13.0419.C62.o1.gs	Method	GENSCAN
Start	390	End	1203
GI	none	Score	.72
Exons	390..1203		

Seq. No.	53629	Seq. ID	OJ991215_13.0419.C62
Gene No.	112789	Strand	+
Start	341	End	1321
Name	OJ991215_13.0419.C62.o1.gp	Method	AAT/GAP
Start	1056	End	1321
GI	568457	Score	532
Exons	1056..1321		

Seq. No.	53630	Seq. ID	OJ991215_13.0419.C63

Gene No.	112790	Strand	-
Start	784	End	1223
Name	OJ991215_13.0419.C63.o1.gp	Method	AAT/GAP
Start	784	End	1223
GI	LIB3477-003-P1-K1-E9	Score	107
Exons	784..871, 1196..1223		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	53630	Seq. ID	OJ991215_13.0419.C63
Gene No.	112791	Strand	-
Start	1209	End	1337
Name	OJ991215_13.0419.C63.o1.gs	Method	GENSCAN
Start	1209	End	1337
GI	none	Score	.78
Exons	1209..1337		

Seq. No.	53631	Seq. ID	OJ991215_13.0419.C64
Gene No.	112792	Strand	+
Start	1	End	884
Name	OJ991215_13.0419.C64.o1.np	Method	AAT/NAP
Start	1	End	883
GI	5738365	Score	642
Exons	1..883		
GI Descrip.	(AL021711) putative protein [Arabidopsis thaliana]		

Seq. No.	53631	Seq. ID	OJ991215_13.0419.C64
Gene No.	112792	Strand	+
Start	1	End	884
Name	OJ991215_13.0419.C64.o1.gs	Method	GENSCAN
Start	27	End	884
GI	none	Score	.42
Exons	27..884		

Seq. No.	53631	Seq. ID	OJ991215_13.0419.C64
Gene No.	112793	Strand	-
Start	2309	End	6582
Name	OJ991215_13.0419.C64.o2.tc	Method	TBLASTX:Cress
Start	6	End	695
GI	none	Score	91
Exons	6..125, 129..230, 312..695, 350..688		

Seq. No.	53631	Seq. ID	OJ991215_13.0419.C64
Gene No.	112793	Strand	-
Start	2309	End	6582
Name	OJ991215_13.0419.C64.o3.ts	Method	TBLASTX:Soybean
Start	6	End	398
GI	none	Score	77
Exons	6..107, 36..122, 129..398		

Seq. No.	53631	Seq. ID	OJ991215_13.0419.C64
Gene No.	112793	Strand	-
Start	2309	End	6582
Name	OJ991215_13.0419.C64.o2.tm	Method	TBLASTX:Maize
Start	6	End	872
GI	none	Score	119

Exons	6..131, 6..122, 15..236, 17..130, 111..209, 276..728, 276..470, 276..449, 288..458, 389..703, 532..585, 702..872		
Seq. No.	53631	Seq. ID	OJ991215_13.0419.C64
Gene No.	112793	Strand	-
Start	2309	End	6582
Name	OJ991215_13.0419.C64.o4.tw	Method	TBLASTX:Wheat
Start	6	End	583
GI	none	Score	81
Exons	6..125, 129..212, 132..251, 137..235, 266..583, 267..581, 405..521, 429..491		
Seq. No.	53631	Seq. ID	OJ991215_13.0419.C64
Gene No.	112793	Strand	-
Start	2309	End	6582
Name	OJ991215_13.0419.C64.o2.ts	Method	TBLASTX:Soybean
Start	399	End	698
GI	none	Score	266
Exons	399..698, 401..592, 432..698		
Seq. No.	53631	Seq. ID	OJ991215_13.0419.C64
Gene No.	112793	Strand	-
Start	2309	End	6582
Name	OJ991215_13.0419.C64.o1.tm	Method	TBLASTX:Maize
Start	2300	End	6319
GI	none	Score	44
Exons	2300..2770, 2306..2338, 2418..2900, 2848..2931, 2855..3643, 2985..3167, 3006..3653, 3020..3178, 3034..3567, 3438..3632, 3616..3642, 3751..3807, 3764..3853, 3779..3862, 4693..5118, 4698..4895, 4706..5053, 4950..5075, 6183..6314, 6185..6319, 6186..6299		
Seq. No.	53631	Seq. ID	OJ991215_13.0419.C64
Gene No.	112793	Strand	-
Start	2309	End	6582
Name	OJ991215_13.0419.C64.o1.gp	Method	AAT/GAP
Start	2305	End	3791
GI	269_1.R1084	Score	2724
Exons	2305..3791		
GI Descrip.	'417154/sp|P33126|HS82_ORYSA 0.0e+00 HEAT SHOCK PROTEIN 82 >gi_100685_pir__S25541 heat shock protein 82 - rice (strain Taichung Native One) >gi_20256_emb_CAA77978_ (Z11920) heat shock protein 82 (HSP82) [Oryza sativa]'		
Seq. No.	53631	Seq. ID	OJ991215_13.0419.C64
Gene No.	112793	Strand	-
Start	2309	End	6582
Name	OJ991215_13.0419.C64.o1.tc	Method	TBLASTX:Cress
Start	2309	End	6319
GI	none	Score	347
Exons	2309..2344, 2339..2770, 2424..2900, 2851..2931, 2855..3643, 2985..3041, 3006..3653, 3020..3178, 3031..3642, 3741..3857, 3757..3810, 3764..3862, 3779..3862, 4692..5069, 4693..5118, 4704..4826, 4706..5050, 4950..5075, 6183..6302, 6185..6319, 6186..6296		
Seq. No.	53631	Seq. ID	OJ991215_13.0419.C64

Gene No.	112793	Strand	-
Start	2309	End	6582
Name	OJ991215_13.0419.C64.o2.gs	Method	GENSCAN
Start	2309	End	6582
GI	none	Score	.94
Exons	2309..3859, 4696..5118, 6185..6314, 6481..6582		

Seq. No.	53631	Seq. ID	OJ991215_13.0419.C64
Gene No.	112793	Strand	-
Start	2309	End	6582
Name	OJ991215_13.0419.C64.o1.ts	Method	TBLASTX:Soybean
Start	2309	End	6334
GI	none	Score	315
Exons	2309..2350, 2396..2770, 2424..2708, 2561..2758, 2836..2883, 2855..2890, 2870..3301, 2887..2928, 2985..3041, 3006..3302, 3020..3178, 3031..3201, 3231..3302, 3239..3304, 3311..3376, 3395..3565, 3395..3628, 3426..3629, 3433..3567, 3438..3629, 3741..3851, 3779..3853, 4689..4826, 4693..4890, 4706..4882, 4870..4971, 4882..4968, 4886..4975, 4957..5016, 4983..5006, 5014..5121, 5015..5113, 5017..5118, 6183..6281, 6185..6334, 6186..6287		

Seq. No.	53631	Seq. ID	OJ991215_13.0419.C64
Gene No.	112793	Strand	-
Start	2309	End	6582
Name	OJ991215_13.0419.C64.o2.np	Method	AAT/NAP
Start	2312	End	6310
GI	417154	Score	3499
Exons	2312..3859, 4696..5118, 6185..6310		
GI Descrip.	HEAT SHOCK PROTEIN 82 gi|100685|pir||S25541 heat shock protein 82 - rice (strain Taichung Native One) gi|20256|emb|CAA77978| (Z11920) heat shock protein 82 (HSP82) [Oryza sativa]		

Seq. No.	53631	Seq. ID	OJ991215_13.0419.C64
Gene No.	112793	Strand	-
Start	2309	End	6582
Name	OJ991215_13.0419.C64.o1.tw	Method	TBLASTX:Wheat
Start	2510	End	3335
GI	none	Score	209
Exons	2510..2770, 2511..2708, 2561..2758, 2833..2931, 2855..3334, 2985..3167, 3020..3178, 3034..3201, 3231..3335		

Seq. No.	53631	Seq. ID	OJ991215_13.0419.C64
Gene No.	112793	Strand	-
Start	2309	End	6582
Name	OJ991215_13.0419.C64.o2.tw	Method	TBLASTX:Wheat
Start	3413	End	3862
GI	none	Score	122
Exons	3413..3565, 3413..3643, 3438..3632, 3616..3642, 3747..3857, 3751..3810, 3764..3862, 3776..3862		

Seq. No.	53631	Seq. ID	OJ991215_13.0419.C64
Gene No.	112793	Strand	-
Start	2309	End	6582
Name	OJ991215_13.0419.C64.o3.tw	Method	TBLASTX:Wheat
Start	4872	End	6317
GI	none	Score	248

Exons	4872..5069, 4873..5115, 4874..5116, 4876..5118, 6183..6317, 6186..6299		
Seq. No.	53631	Seq. ID	OJ991215_13.0419.C64
Gene No.	112793	Strand	-
Start	2309	End	6582
Name	OJ991215_13.0419.C64.o2.gp	Method	AAT/GAP
Start	4889	End	6407
GI	438_6.R1084	Score	772
Exons	4889..5118, 6185..6407		
GI Descrip.	'417154/sp|P33126|HS82_ORYSA 8.0e-40 HEAT SHOCK PROTEIN 82 >gi_100685_pir__S25541 heat shock protein 82 - rice (strain Taichung Native One) >gi_20256_emb_CAA77978_ (Z11920) heat shock protein 82 (HSP82) [Oryza sativa]'		
Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112794	Strand	+
Start	963	End	9224
Name	OJ991215_13.0419.C65.o1.gs	Method	GENSCAN
Start	963	End	6581
GI	none	Score	.68
Exons	963..1123, 1628..1762, 2331..2399, 3215..3461, 3564..3776, 4442..4522, 4606..4692, 4795..4890, 5151..6200, 6293..6332, 6376..6581		
Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112794	Strand	+
Start	963	End	9224
Name	OJ991215_13.0419.C65.o1.gp	Method	AAT/GAP
Start	2542	End	2793
GI	none	Score	484
Exons	2542..2793		
Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112794	Strand	+
Start	963	End	9224
Name	OJ991215_13.0419.C65.o2.gp	Method	AAT/GAP
Start	4943	End	5237
GI	none	Score	238
Exons	4943..5057, 5151..5237		
Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112794	Strand	+
Start	963	End	9224
Name	OJ991215_13.0419.C65.o3.gp	Method	AAT/GAP
Start	4991	End	5280
GI	none	Score	326
Exons	4991..5057, 5151..5280		
Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112794	Strand	+
Start	963	End	9224
Name	OJ991215_13.0419.C65.o4.gp	Method	AAT/GAP
Start	5285	End	5833
GI	none	Score	996
Exons	5285..5833		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112794	Strand	+
Start	963	End	9224
Name	OJ991215_13.0419.C65.o1.np	Method	AAT/NAP
Start	5839	End	9224
GI	1709923	Score	668
Exons	5839..5909, 7549..7687, 7786..7897, 8537..8713, 8867..8993, 9114..9224		
GI Descrip.	PHOSPHORIBOSYLGLYCINAMIDE FORMYLTRANSFERASE PRECURSOR (GART) (GAR TRANSFORMYLASE) (5'-PHOSPHORIBOSYLGLYCINAMIDE TRANSFORMYLASE) gi|7433568|pir||T11574 phosphoribosylglycinamide formyltransferase (EC 2.1.2.2) - cowpea gi|984818|gb|AAA75367.1| (U30875) glycinamide ribonucleotide transformylase (GART) [Vigna unguiculata]		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o1.tm	Method	TBLASTX:Maize
Start	3197	End	5684
GI	none	Score	232
Exons	3197..3457, 3209..3460, 3210..3482, 3552..3776, 3553..3774, 3561..3788, 3563..3787, 4439..4501, 4439..4495, 4441..4500, 4502..4522, 4558..4692, 4605..4691, 4788..4889, 4792..4902, 4792..4890, 4793..4894, 5003..5056, 5004..5060, 5011..5064, 5147..5359, 5148..5357, 5149..5385, 5395..5505, 5424..5489, 5547..5684, 5561..5680		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o4.ts	Method	TBLASTX:Soybean
Start	3197	End	3671
GI	none	Score	177
Exons	3197..3475, 3246..3467, 3555..3629, 3572..3613, 3630..3671, 3632..3667		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o2.tc	Method	TBLASTX:Cress
Start	4484	End	5240
GI	none	Score	49
Exons	4484..4522, 4603..4692, 4605..4691, 4785..4889, 4792..4890, 5004..5060, 5007..5057, 5148..5240, 5150..5209		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o2.tw	Method	TBLASTX:Wheat
Start	5400	End	5991
GI	none	Score	47
Exons	5400..5450, 5440..5688, 5441..5689, 5539..5691, 5565..5726, 5568..5726, 5649..5735, 5718..5738, 5733..5834, 5733..5813, 5750..5836, 5761..5835, 5812..5850, 5817..5849, 5824..5853, 5908..5991, 5917..5967, 5925..5990		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o2.ts	Method	TBLASTX:Soybean
Start	5817	End	6595
GI	none	Score	39
Exons	5817..5840, 5946..6038, 6020..6196, 6021..6200, 6305..6373, 6428..6595, 6432..6572		

Seq. No.	53632	Seq. ID	OJ991215_13:0419.C65
Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o3.tm	Method	TBLASTX:Maize
Start	5979	End	6581
GI	none	Score	144
Exons	5979..6128, 5983..6093, 6008..6097, 6080..6187, 6095..6178, 6111..6185, 6290..6364, 6292..6330, 6424..6579, 6428..6580, 6432..6581		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o3.tw	Method	TBLASTX:Wheat
Start	6031	End	6201
GI	none	Score	249
Exons	6031..6198, 6032..6199, 6033..6200, 6037..6201		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o2.gs	Method	GENSCAN
Start	7014	End	13868
GI	none	Score	.53
Exons	7014..7260, 7460..7869, 10664..10782, 11486..11662, 12493..12621, 13034..13868		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o3.tc	Method	TBLASTX:Cress
Start	7587	End	9233
GI	none	Score	117
Exons	7587..7676, 7588..7683, 7787..7858, 7788..7859, 8535..8717, 8535..8690, 8546..8719, 8864..8995, 8865..8993, 9102..9158, 9174..9233		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o3.ts	Method	TBLASTX:Soybean
Start	7590	End	9230
GI	none	Score	110
Exons	7590..7676, 7591..7683, 7766..7855, 7788..7850, 8534..8713, 8535..8717, 8546..8725, 8864..9001, 8865..8993, 8867..8995, 9111..9230		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65

Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o4.tm	Method	TBLASTX:Maize
Start	7805	End	8704
GI	none	Score	98
Exons	7805..7897, 7806..7874, 7824..7898, 8517..8699, 8534..8704, 8547..8702		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o2.np	Method	AAT/NAP
Start	8603	End	14522
GI	7486495	Score	687
Exons	8603..8639, 10572..11625, 13015..13096, 14491..14522		
GI Descrip.	hypothetical protein F6E21.30 - Arabidopsis thaliana gi|7270013|emb|CAB79829.1| (AL161578) putative protein [Arabidopsis thaliana]		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o1.tc	Method	TBLASTX:Cress
Start	10628	End	13820
GI	none	Score	75
Exons	10628..10741, 10844..10906, 10891..11163, 10913..11032, 10999..11124, 11179..11220, 11220..11375, 11221..11364, 11349..11528, 11449..11577, 12464..12562, 13029..13115, 13749..13820		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o3.np	Method	AAT/NAP
Start	10703	End	13898
GI	4826399	Score	803
Exons	10703..11700, 12015..12122, 13034..13898		
GI Descrip.	(AJ012423) wall-associated kinase 2 [Arabidopsis thaliana]		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o1.ts	Method	TBLASTX:Soybean
Start	10838	End	11595
GI	none	Score	78
Exons	10838..10891, 10891..11154, 10891..11166, 10998..11174, 11179..11220, 11220..11318, 11220..11357, 11221..11319, 11376..11525, 11380..11469, 11500..11595		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o2.tm	Method	TBLASTX:Maize
Start	10841	End	11525
GI	none	Score	51
Exons	10841..10891, 10842..10892, 10891..11157, 10939..11100, 11199..11381, 11221..11376, 11334..11525, 11335..11520		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o4.tw	Method	TBLASTX:Wheat
Start	10891	End	11103
GI	none	Score	130
Exons	10891..10971, 10972..11103		

Seq. No.	53632	Seq. ID	OJ991215_13.0419.C65
Gene No.	112795	Strand	-
Start	7014	End	14522
Name	OJ991215_13.0419.C65.o1.tw	Method	TBLASTX:Wheat
Start	11104	End	11519
GI	none	Score	55
Exons	11104..11163, 11167..11220, 11173..11220, 11189..11362, 11220..11375, 11221..11376, 11221..11376, 11376..11519, 11379..11483, 11380..11514		

Seq. No.	53633	Seq. ID	OJ991215_13.0419.C66
Gene No.	112796	Strand	+
Start	1	End	504
Name	OJ991215_13.0419.C66.o1.np	Method	AAT/NAP
Start	1	End	504
GI	7489616	Score	95
Exons	1..127, 417..504		
GI Descrip.	hypothetical protein 74 - rice mitochondrion gi|769706|dbj|BAA06810.1| (D32052) ORF74 [Oryza sativa]		

Seq. No.	53633	Seq. ID	OJ991215_13.0419.C66
Gene No.	112797	Strand	-
Start	664	End	889
Name	OJ991215_13.0419.C66.o1.gp	Method	AAT/GAP
Start	664	End	889
GI	426253	Score	380
Exons	664..889		

Seq. No.	53634	Seq. ID	OJ991215_13.0419.C67
Gene No.	112798	Strand	-
Start	364	End	3260
Name	OJ991215_13.0419.C67.o5.tm	Method	TBLASTX:Maize
Start	185	End	493
GI	none	Score	39
Exons	185..211, 188..247, 254..364, 255..353, 402..491, 403..492, 404..493		

Seq. No.	53634	Seq. ID	OJ991215_13.0419.C67
Gene No.	112798	Strand	-
Start	364	End	3260
Name	OJ991215_13.0419.C67.o1.gs	Method	GENSCAN
Start	364	End	900
GI	none	Score	.53
Exons	364..900		

Seq. No.	53634	Seq. ID	OJ991215_13.0419.C67
Gene No.	112798	Strand	-
Start	364	End	3260

Name	OJ991215_13.0419.C67.o1.np	Method	AAT/NAP
Start	367	End	3260
GI	6630696	Score	4642
Exons	367..3013, 3053..3260		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	53634	Seq. ID	OJ991215_13.0419.C67
Gene No.	112798	Strand	-
Start	364	End	3260
Name	OJ991215_13.0419.C67.o2.tw	Method	TBLASTX:Wheat
Start	503	End	978
GI	none	Score	396
Exons	503..889, 505..888, 904..978, 905..973, 913..978		

Seq. No.	53634	Seq. ID	OJ991215_13.0419.C67
Gene No.	112798	Strand	-
Start	364	End	3260
Name	OJ991215_13.0419.C67.o3.ts	Method	TBLASTX:Soybean
Start	631	End	972
GI	none	Score	96
Exons	631..840, 710..835, 859..972, 869..937		

Seq. No.	53634	Seq. ID	OJ991215_13.0419.C67
Gene No.	112798	Strand	-
Start	364	End	3260
Name	OJ991215_13.0419.C67.o1.tm	Method	TBLASTX:Maize
Start	835	End	1182
GI	none	Score	276
Exons	835..1182, 836..1168		

Seq. No.	53634	Seq. ID	OJ991215_13.0419.C67
Gene No.	112798	Strand	-
Start	364	End	3260
Name	OJ991215_13.0419.C67.o3.tw	Method	TBLASTX:Wheat
Start	979	End	1730
GI	none	Score	69
Exons	979..1032, 1186..1320, 1301..1390, 1385..1657, 1662..1730		

Seq. No.	53634	Seq. ID	OJ991215_13.0419.C67
Gene No.	112798	Strand	-
Start	364	End	3260
Name	OJ991215_13.0419.C67.o4.ts	Method	TBLASTX:Soybean
Start	982	End	1331
GI	none	Score	66
Exons	982..1158, 985..1173, 986..1171, 1174..1323, 1299..1331		

Seq. No.	53634	Seq. ID	OJ991215_13.0419.C67
Gene No.	112798	Strand	-
Start	364	End	3260
Name	OJ991215_13.0419.C67.o2.tm	Method	TBLASTX:Maize
Start	1280	End	1730
GI	none	Score	61
Exons	1280..1663, 1368..1478, 1445..1594, 1662..1730, 1680..1715		

Seq. No.	53634	Seq. ID	OJ991215_13.0419.C67

Gene No.	112798	Strand	-
Start	364	End	3260
Name	OJ991215_13.0419.C67.o1.ts	Method	TBLASTX:Soybean
Start	1400	End	1865
GI	5509260	Score	39
Exons	1400..1657, 1548..1577, 1662..1865, 1666..1770		
GI Descrip.	-		

Seq. No.	53634	Seq. ID	OJ991215_13.0419.C67
Gene No.	112798	Strand	-
Start	364	End	3260
Name	OJ991215_13.0419.C67.o1.tc	Method	TBLASTX:Cress
Start	1511	End	1772
GI	none	Score	84
Exons	1511..1663, 1662..1772, 1663..1770		

Seq. No.	53634	Seq. ID	OJ991215_13.0419.C67
Gene No.	112798	Strand	-
Start	364	End	3260
Name	OJ991215_13.0419.C67.o1.tw	Method	TBLASTX:Wheat
Start	1785	End	2539
GI	none	Score	99
Exons	1785..1943, 1785..2501, 1789..2502, 2071..2511, 2411..2521, 2498..2539, 2499..2531		

Seq. No.	53634	Seq. ID	OJ991215_13.0419.C67
Gene No.	112798	Strand	-
Start	364	End	3260
Name	OJ991215_13.0419.C67.o2.ts	Method	TBLASTX:Soybean
Start	2190	End	2587
GI	none	Score	77
Exons	2190..2363, 2367..2501, 2498..2587		

Seq. No.	53634	Seq. ID	OJ991215_13.0419.C67
Gene No.	112798	Strand	-
Start	364	End	3260
Name	OJ991215_13.0419.C67.o4.tm	Method	TBLASTX:Maize
Start	2376	End	2839
GI	none	Score	198
Exons	2376..2501, 2498..2839		

Seq. No.	53634	Seq. ID	OJ991215_13.0419.C67
Gene No.	112798	Strand	-
Start	364	End	3260
Name	OJ991215_13.0419.C67.o4.tw	Method	TBLASTX:Wheat
Start	2540	End	2732
GI	none	Score	202
Exons	2540..2731, 2541..2732		

Seq. No.	53634	Seq. ID	OJ991215_13.0419.C67
Gene No.	112798	Strand	-
Start	364	End	3260
Name	OJ991215_13.0419.C67.o5.ts	Method	TBLASTX:Soybean
Start	2597	End	2977
GI	none	Score	90
Exons	2597..2845, 2828..2977		

Seq. No.	53634	Seq. ID	OJ991215_13.0419.C67
Gene No.	112798	Strand	-
Start	364	End	3260
Name	OJ991215_13.0419.C67.o3.tm	Method	TBLASTX:Maize
Start	2925	End	3260
GI	none	Score	51
Exons	2925..3014, 2927..2992, 3065..3259, 3065..3259, 3066..3260		

Seq. No.	53635	Seq. ID	OJ991215_13.0419.C68
Gene No.	112799	Strand	+
Start	593	End	1104
Name	OJ991215_13.0419.C68.o1.np	Method	AAT/NAP
Start	593	End	1104
GI	7489616	Score	100
Exons	593..727, 1017..1104		
GI Descrip.	hypothetical protein 74 - rice mitochondrion gi|769706|dbj|BAA06810.1| (D32052) ORF74 [Oryza sativa]		

Seq. No.	53635	Seq. ID	OJ991215_13.0419.C68
Gene No.	112800	Strand	-
Start	177	End	1123
Name	OJ991215_13.0419.C68.o1.gs	Method	GENSCAN
Start	177	End	1123
GI	none	Score	.65
Exons	177..218, 595..725, 950..1123		

Seq. No.	53636	Seq. ID	OJ991215_13.0419.C70
Gene No.	112801	Strand	+
Start	1175	End	1642
Name	OJ991215_13.0419.C70.o1.gp	Method	AAT/GAP
Start	542	End	1519
GI	none	Score	749
Exons	542..635, 1184..1519		

Seq. No.	53636	Seq. ID	OJ991215_13.0419.C70
Gene No.	112801	Strand	+
Start	1175	End	1642
Name	OJ991215_13.0419.C70.o1.gs	Method	GENSCAN
Start	1175	End	1642
GI	none	Score	.96
Exons	1175..1642		

Seq. No.	53636	Seq. ID	OJ991215_13.0419.C70
Gene No.	112802	Strand	-
Start	4213	End	7603
Name	OJ991215_13.0419.C70.o2.gs	Method	GENSCAN
Start	4213	End	7603
GI	none	Score	.41
Exons	4213..4316, 4648..4935, 6080..6235, 6836..6929, 7474..7603		

Seq. No.	53637	Seq. ID	OJ991215_13.0419.C71
Gene No.	112803	Strand	+
Start	968	End	1756
Name	OJ991215_13.0419.C71.o1.gs	Method	GENSCAN
Start	968	End	1756
GI	none	Score	.98
Exons	968..1051, 1525..1756		

Seq. No.	53637	Seq. ID	OJ991215_13.0419.C71
Gene No.	112804	Strand	-
Start	3306	End	3452
Name	OJ991215_13.0419.C71.o2.gs	Method	GENSCAN
Start	3306	End	3452
GI	none	Score	.6
Exons	3306..3452		

Seq. No.	53638	Seq. ID	OJ991105_10.0419.C5
Gene No.	112805	Strand	+
Start	1	End	710
Name	OJ991105_10.0419.C5.o1.gp	Method	AAT/GAP
Start	1	End	627
GI	uC-osflm202110b09b1	Score	715
Exons	1..174, 309..407, 491..627		
GI Descrip.	'2146739/pir||S71205 9.0e-61 hexokinase (EC 2.7.1.1) 1 - Arabidopsis thaliana >gi_881521 (U28214) hexokinase 1 [Arabidopsis thaliana] >gi_4972059_emb_CAB43927.1_ (AL078470) hexokinase [Arabidopsis thaliana]'		

Seq. No.	53638	Seq. ID	OJ991105_10.0419.C5
Gene No.	112805	Strand	+
Start	1	End	710
Name	OJ991105_10.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	710
GI	2833378	Score	412
Exons	1..174, 309..407, 491..710		
GI Descrip.	HEXOKINASE gi|619928|gb|AAA60333.1| (U18754) hexokinase [Arabidopsis thaliana] gi|1582383|prf||2118367A hexokinase [Arabidopsis thaliana]		

Seq. No.	53638	Seq. ID	OJ991105_10.0419.C5
Gene No.	112805	Strand	+
Start	1	End	710
Name	OJ991105_10.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	18	End	546
GI	none	Score	204
Exons	18..179, 19..177, 308..406, 309..410, 485..532, 487..546		

Seq. No.	53638	Seq. ID	OJ991105_10.0419.C5
Gene No.	112805	Strand	+
Start	1	End	710
Name	OJ991105_10.0419.C5.o1.ts	Method	TBLASTX:Soybean
Start	18	End	622
GI	none	Score	204
Exons	18..179, 19..177, 308..406, 309..413, 485..622, 487..621		

Seq. No.	53638	Seq. ID	OJ991105_10.0419.C5
Gene No.	112805	Strand	+
Start	1	End	710
Name	OJ991105_10.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	18	End	622
GI	none	Score	240
Exons	18..179, 19..177, 308..406, 309..413, 485..622, 487..621		

Seq. No.	53638	Seq. ID	OJ991105_10.0419.C5

Gene No.	112805	Strand	+
Start	1	End	710
Name	OJ991105_10.0419.C5.o1.gs	Method	GENSCAN
Start	309	End	621
GI	none	Score	.98
Exons	309..407, 491..621		

Seq. No.	53639	Seq. ID	OJ991105_10.0419.C8
Gene No.	112806	Strand	+
Start	1	End	974
Name	OJ991105_10.0419.C8.o1.gs	Method	GENSCAN
Start	1	End	974
GI	none	Score	.81
Exons	1..78, 831..974		

Seq. No.	53639	Seq. ID	OJ991105_10.0419.C8
Gene No.	112807	Strand	-
Start	1	End	3479
Name	OJ991105_10.0419.C8.o1.np	Method	AAT/NAP
Start	1	End	3479
GI	6016874	Score	2059
Exons	1..20, 637..996, 1463..1803, 1921..2100, 2495..2654, 3045..3277, 3342..3479		
GI Descrip.	(AP000570) ESTs C19143(E10020),D25076(R3116) correspond to a region of the predicted gene.; Similar to putative AC9 transposase. (P03010) [Oryza sativa]		

Seq. No.	53639	Seq. ID	OJ991105_10.0419.C8
Gene No.	112807	Strand	-
Start	1	End	3479
Name	OJ991105_10.0419.C8.o2.gs	Method	GENSCAN
Start	1460	End	3479
GI	none	Score	.6
Exons	1460..2100, 2495..2525, 3045..3277, 3342..3479		

Seq. No.	53639	Seq. ID	OJ991105_10.0419.C8
Gene No.	112807	Strand	-
Start	1	End	3479
Name	OJ991105_10.0419.C8.o2.tm	Method	TBLASTX:Maize
Start	1526	End	1769
GI	none	Score	97
Exons	1526..1759, 1611..1769		

Seq. No.	53639	Seq. ID	OJ991105_10.0419.C8
Gene No.	112807	Strand	-
Start	1	End	3479
Name	OJ991105_10.0419.C8.o4.tm	Method	TBLASTX:Maize
Start	1881	End	2234
GI	none	Score	85
Exons	1881..2123, 1952..2125, 2080..2223, 2127..2234		

Seq. No.	53639	Seq. ID	OJ991105_10.0419.C8
Gene No.	112807	Strand	-
Start	1	End	3479
Name	OJ991105_10.0419.C8.o3.tm	Method	TBLASTX:Maize
Start	2439	End	2753
GI	none	Score	109

Exons	2439..2666, 2440..2658, 2679..2753		
Seq. No.	53639	Seq. ID	OJ991105_10.0419.C8
Gene No.	112807	Strand	-
Start	1	End	3479
Name	OJ991105_10.0419.C8.o1.gp	Method	AAT/GAP
Start	2444	End	2952
GI	uC-osflcyp110c07b1	Score	958
Exons	2444..2952		
GI Descrip.	'4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes'		
Seq. No.	53639	Seq. ID	OJ991105_10.0419.C8
Gene No.	112807	Strand	-
Start	1	End	3479
Name	OJ991105_10.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	2847	End	3293
GI	none	Score	110
Exons	2847..2885, 2880..2936, 2973..3221, 3013..3222, 3207..3293		
Seq. No.	53640	Seq. ID	OJ991105_10.0419.C9
Gene No.	112808	Strand	-
Start	361	End	565
Name	OJ991105_10.0419.C9.o1.gs	Method	GENSCAN
Start	361	End	565
GI	none	Score	.47
Exons	361..565		
Seq. No.	53641	Seq. ID	OJ991105_10.0419.C10
Gene No.	112809	Strand	-
Start	814	End	1405
Name	OJ991105_10.0419.C10.o1.np	Method	AAT/NAP
Start	814	End	1405
GI	2618725	Score	131
Exons	814..913, 1306..1405		
GI Descrip.	(U49074) IAA18 [Arabidopsis thaliana]		
Seq. No.	53642	Seq. ID	OJ991105_10.0419.C11
Gene No.	112810	Strand	+
Start	705	End	1124
Name	OJ991105_10.0419.C11.o1.gp	Method	AAT/GAP
Start	705	End	1124
GI	3767157	Score	772
Exons	705..1124		
Seq. No.	53642	Seq. ID	OJ991105_10.0419.C11
Gene No.	112811	Strand	+
Start	1939	End	2320
Name	OJ991105_10.0419.C11.o1.gs	Method	GENSCAN
Start	1939	End	2320
GI	none	Score	.47
Exons	1939..2082, 2087..2320		
Seq. No.	53642	Seq. ID	OJ991105_10.0419.C11
Gene No.	112812	Strand	-
Start	1084	End	1287

Name	OJ991105_10.0419.C11.o2.gp	Method	AAT/GAP
Start	1084	End	1287
GI	3767156	Score	367
Exons	1084..1287		

Seq. No.	53643	Seq. ID	OJ991105_10.0419.C12
Gene No.	112813	Strand	+
Start	117	End	2700
Name	OJ991105_10.0419.C12.o1.gs	Method	GENSCAN
Start	117	End	2700
GI	none	Score	.63
Exons	117..122, 283..549, 2030..2132, 2489..2700		

Seq. No.	53644	Seq. ID	OJ991105_10.0419.C13
Gene No.	112814	Strand	+
Start	88	End	492
Name	OJ991105_10.0419.C13.o1.gs	Method	GENSCAN
Start	88	End	492
GI	none	Score	.51
Exons	88..193, 256..322, 418..492		

Seq. No.	53644	Seq. ID	OJ991105_10.0419.C13
Gene No.	112815	Strand	+
Start	1413	End	2985
Name	OJ991105_10.0419.C13.o1.np	Method	AAT/NAP
Start	1413	End	2985
GI	6721516	Score	546
Exons	1413..1653, 2061..2399, 2834..2985		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	53644	Seq. ID	OJ991105_10.0419.C13
Gene No.	112816	Strand	-
Start	1626	End	2283
Name	OJ991105_10.0419.C13.o2.gs	Method	GENSCAN
Start	1626	End	2283
GI	none	Score	.67
Exons	1626..1743, 2159..2283		

Seq. No.	53645	Seq. ID	OJ991105_10.0419.C18
Gene No.	112817	Strand	-
Start	1	End	2200
Name	OJ991105_10.0419.C18.o1.np	Method	AAT/NAP
Start	1	End	2200
GI	7109485	Score	296
Exons	1..63, 426..518, 601..678, 760..843, 928..1025, 2160..2200		
GI Descrip.	(AC016662) putative kinesin [Arabidopsis thaliana]		

Seq. No.	53645	Seq. ID	OJ991105_10.0419.C18
Gene No.	112817	Strand	-
Start	1	End	2200
Name	OJ991105_10.0419.C18.o1.gs	Method	GENSCAN
Start	27	End	1831
GI	none	Score	.91
Exons	27..63, 304..333, 426..518, 601..678, 760..860, 1471..1696, 1787..1831		

Seq. No.	53645	Seq. ID	OJ991105_10.0419.C18

Gene No.	112817	Strand	-
Start	1	End	2200
Name	OJ991105_10.0419.C18.o1.gp	Method	AAT/GAP
Start	282	End	1697
GI	3761361	Score	1009
Exons	282..333, 426..518, 601..678,	760..842,	928..1025, 1471..1697

Seq. No.	53645	Seq. ID	OJ991105_10.0419.C18
Gene No.	112817	Strand	-
Start	1	End	2200
Name	OJ991105_10.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	420	End	1012
GI	none	Score	52
Exons	420..530, 431..523, 559..681, 899..1012, 922..1011	592..663,	757..846, 758..850,

Seq. No.	53645	Seq. ID	OJ991105_10.0419.C18
Gene No.	112817	Strand	-
Start	1	End	2200
Name	OJ991105_10.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	444	End	813
GI	none	Score	71
Exons	444..518, 445..516, 445..519, 760..813, 761..808	447..521,	601..684, 650..685,

Seq. No.	53646	Seq. ID	OJ991105_10.0419.C19
Gene No.	112818	Strand	+
Start	213	End	326
Name	OJ991105_10.0419.C19.o1.gs	Method	GENSCAN
Start	213	End	326
GI	none	Score	.75
Exons	213..326		

Seq. No.	53646	Seq. ID	OJ991105_10.0419.C19
Gene No.	112819	Strand	+
Start	1173	End	1233
Name	OJ991105_10.0419.C19.o1.gp	Method	AAT/GAP
Start	1173	End	1233
GI	4715947	Score	76
Exons	1173..1233		
GI Descrip.	2252840 3.0e-09 (AF013293) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana] >gi_6049882_gb_AAF02797.1_AF195115_17 (AF195115) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana]		

Seq. No.	53646	Seq. ID	OJ991105_10.0419.C19
Gene No.	112820	Strand	-
Start	1249	End	1626
Name	OJ991105_10.0419.C19.o2.gs	Method	GENSCAN
Start	1249	End	1626
GI	none	Score	.92
Exons	1249..1338, 1552..1626		

Seq. No.	53647	Seq. ID	OJ991105_10.0419.C22
Gene No.	112821	Strand	+
Start	1	End	3897

Name	OJ991105_10.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	816
GI	5902445	Score	1138
Exons	1..816		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	53647	Seq. ID	OJ991105_10.0419.C22
Gene No.	112821	Strand	+
Start	1	End	3897
Name	OJ991105_10.0419.C22.o3.np	Method	AAT/NAP
Start	1	End	3897
GI	4680183	Score	217
Exons	1..103, 3129..3199, 3808..3897		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	53647	Seq. ID	OJ991105_10.0419.C22
Gene No.	112822	Strand	-
Start	1093	End	5048
Name	OJ991105_10.0419.C22.o2.tw	Method	TBLASTX:Wheat
Start	6	End	1398
GI	none	Score	183
Exons	6..92, 8..205, 9..203, 144..206, 1291..1398		

Seq. No.	53647	Seq. ID	OJ991105_10.0419.C22
Gene No.	112822	Strand	-
Start	1093	End	5048
Name	OJ991105_10.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	164	End	437
GI	none	Score	100
Exons	164..262, 165..263, 254..328, 258..341, 351..437		

Seq. No.	53647	Seq. ID	OJ991105_10.0419.C22
Gene No.	112822	Strand	-
Start	1093	End	5048
Name	OJ991105_10.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	207	End	665
GI	none	Score	361
Exons	207..665, 227..316, 357..386, 368..496		

Seq. No.	53647	Seq. ID	OJ991105_10.0419.C22
Gene No.	112822	Strand	-
Start	1093	End	5048
Name	OJ991105_10.0419.C22.o2.tm	Method	TBLASTX:Maize
Start	438	End	695
GI	none	Score	182
Exons	438..695, 581..661		

Seq. No.	53647	Seq. ID	OJ991105_10.0419.C22
Gene No.	112822	Strand	-
Start	1093	End	5048
Name	OJ991105_10.0419.C22.o2.np	Method	AAT/NAP
Start	1093	End	2924
GI	6691716	Score	1128
Exons	1093..1531, 1605..1719, 1869..1970, 2045..2232, 2310..2489, 2566..2668, 2745..2924		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein		

[Oryza sativa]

Seq. No.	53647	Seq. ID	OJ991105_10.0419.C22
Gene No.	112822	Strand	-
Start	1093	End	5048
Name	OJ991105_10.0419.C22.o2.gs	Method	GENSCAN
Start	1158	End	4783
GI	none	Score	.87
Exons	1158..1423, 1605..1709, 1781..1970, 2045..2232, 2310..2668, 3099..3194, 4710..4783		

Seq. No.	53647	Seq. ID	OJ991105_10.0419.C22
Gene No.	112822	Strand	-
Start	1093	End	5048
Name	OJ991105_10.0419.C22.o1.gp	Method	AAT/GAP
Start	2985	End	3194
GI	1631463	Score	339
Exons	2985..3194		
GI Descrip.	4680178/gb|AF111709.1|AF111709 5.0e-81 Oryza sativa subsp. indica Retrosat 1 retrotransposon and Ty3-Gypsy type Retrosat 2 retrotransposon, complete sequences; and unknown genes		

Seq. No.	53647	Seq. ID	OJ991105_10.0419.C22
Gene No.	112822	Strand	-
Start	1093	End	5048
Name	OJ991105_10.0419.C22.o4.np	Method	AAT/NAP
Start	4603	End	5048
GI	1076802	Score	102
Exons	4603..5048		
GI Descrip.	extensin-like protein - maize gi|600118|emb|CAA84230| (Z34465) extensin-like protein [Zea mays] gi|1096557|prf||2111476A extensin-like domain [Zea mays]		

Seq. No.	53648	Seq. ID	OJ991105_10.0419.C23
Gene No.	112823	Strand	-
Start	1	End	268
Name	OJ991105_10.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	268
GI	5902447	Score	103
Exons	1..268		
GI Descrip.	(AB030283) orf4 [Oryza sativa]		

Seq. No.	53648	Seq. ID	OJ991105_10.0419.C23
Gene No.	112824	Strand	-
Start	358	End	1251
Name	OJ991105_10.0419.C23.o2.np	Method	AAT/NAP
Start	358	End	1251
GI	5902448	Score	1498
Exons	358..1251		
GI Descrip.	(AB030283) orf3 [Oryza sativa]		

Seq. No.	53648	Seq. ID	OJ991105_10.0419.C23
Gene No.	112824	Strand	-
Start	358	End	1251
Name	OJ991105_10.0419.C23.o1.gs	Method	GENSCAN
Start	367	End	1251
GI	none	Score	.6

Exons	367..693, 1084..1251		
Seq. No.	53648	Seq. ID	OJ991105_10.0419.C23
Gene No.	112824	Strand	-
Start	358	End	1251
Name	OJ991105_10.0419.C23.o1.tw	Method	TBLASTX:Wheat
Start	841	End	1131
GI	none	Score	203
Exons	841..1131		
Seq. No.	53649	Seq. ID	OJ991105_10.0419.C24
Gene No.	112825	Strand	+
Start	458	End	2201
Name	OJ991105_10.0419.C24.o1.np	Method	AAT/NAP
Start	458	End	2201
GI	6907088	Score	362
Exons	458..595, 771..1201, 2037..2201		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	53649	Seq. ID	OJ991105_10.0419.C24
Gene No.	112825	Strand	+
Start	458	End	2201
Name	OJ991105_10.0419.C24.o2.np	Method	AAT/NAP
Start	1913	End	2201
GI	4680184	Score	220
Exons	1913..2201		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	53650	Seq. ID	OJ991105_10.0419.C25
Gene No.	112826	Strand	+
Start	1	End	1055
Name	OJ991105_10.0419.C25.o1.np	Method	AAT/NAP
Start	1	End	1055
GI	7388554	Score	135
Exons	1..1055		
GI Descrip.	HYPOTHETICAL PE-PGRS FAMILY PROTEIN RV3508 PRECURSOR gi|7476151|pir||F70806 hypothetical glycine-rich protein Rv3508 - Mycobacterium tuberculosis (strain H37RV) gi|2924445|emb|CAA17745.1| (AL022022) PE_PGRS [Mycobacterium tuberculosis]		
Seq. No.	53650	Seq. ID	OJ991105_10.0419.C25
Gene No.	112827	Strand	-
Start	60	End	1047
Name	OJ991105_10.0419.C25.o1.gs	Method	GENSCAN
Start	60	End	1047
GI	none	Score	.64
Exons	60..327, 527..612, 749..1047		
Seq. No.	53651	Seq. ID	OJ991105_10.0419.C26
Gene No.	112828	Strand	-
Start	1	End	910
Name	OJ991105_10.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	910
GI	4680179	Score	367
Exons	1..910		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	53651	Seq. ID	OJ991105_10.0419.C26
Gene No.	112828	Strand	-
Start	1	End	910
Name	OJ991105_10.0419.C26.o1.gs	Method	GENSCAN
Start	111	End	528
GI	none	Score	.63
Exons	111..528		

Seq. No.	53651	Seq. ID	OJ991105_10.0419.C26
Gene No.	112828	Strand	-
Start	1	End	910
Name	OJ991105_10.0419.C26.o1.tw	Method	TBLASTX:Wheat
Start	114	End	419
GI	none	Score	97
Exons	114..419, 235..417		

Seq. No.	53651	Seq. ID	OJ991105_10.0419.C26
Gene No.	112828	Strand	-
Start	1	End	910
Name	OJ991105_10.0419.C26.o1.tm	Method	TBLASTX:Maize
Start	117	End	413
GI	none	Score	76
Exons	117..413, 235..381		

Seq. No.	53652	Seq. ID	OJ991105_10.0419.C37
Gene No.	112829	Strand	-
Start	133	End	394
Name	OJ991105_10.0419.C37.o1.gs	Method	GENSCAN
Start	133	End	394
GI	none	Score	.48
Exons	133..394		

Seq. No.	53653	Seq. ID	OJ991105_10.0419.C38
Gene No.	112830	Strand	+
Start	1	End	1124
Name	OJ991105_10.0419.C38.o1.np	Method	AAT/NAP
Start	1	End	715
GI	6907106	Score	395
Exons	1..449, 524..715		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53653	Seq. ID	OJ991105_10.0419.C38
Gene No.	112830	Strand	+
Start	1	End	1124
Name	OJ991105_10.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	270	End	617
GI	none	Score	65
Exons	270..362, 285..341, 340..480, 484..516, 485..517, 571..615,	341..376, 346..468, 470..505, 572..616, 576..617	

Seq. No.	53653	Seq. ID	OJ991105_10.0419.C38
Gene No.	112830	Strand	+
Start	1	End	1124
Name	OJ991105_10.0419.C38.o1.gp	Method	AAT/GAP
Start	315	End	1124

GI	6547_1.R1084	Score	922
Exons	315..700, 905..1124		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 4.0e-52 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	53654	Seq. ID	OJ991105_10.0419.C39
Gene No.	112831	Strand	+
Start	116	End	478
Name	OJ991105_10.0419.C39.o1.gs	Method	GENSCAN
Start	116	End	478
GI	none	Score	.68
Exons	116..478		

Seq. No.	53654	Seq. ID	OJ991105_10.0419.C39
Gene No.	112832	Strand	-
Start	658	End	2658
Name	OJ991105_10.0419.C39.o2.gs	Method	GENSCAN
Start	658	End	2658
GI	none	Score	.41
Exons	658..772, 1642..1800, 2061..2076, 2354..2457, 2600..2658		

Seq. No.	53655	Seq. ID	OJ991105_10.0419.C40
Gene No.	112833	Strand	+
Start	1	End	1271
Name	OJ991105_10.0419.C40.o1.gp	Method	AAT/GAP
Start	1	End	307
GI	2317293	Score	451
Exons	1..106, 134..307		
GI Descrip.	1350783/sp|P47735|RLK5_ARATH 3.0e-20 RECEPTOR-LIKE PROTEIN KINASE 5 PRECURSOR >gi_282883_pir__S27756 receptor-like protein kinase precursor - Arabidopsis thaliana >gi_166850 (M84660) receptor-like protein kinase [Arabidopsis thaliana] >gi_2842492_emb_CAA16889.1_ (AL021749) receptor-like protein kinase 5 precursor (RLK5) [Arabidopsis thaliana]		

Seq. No.	53655	Seq. ID	OJ991105_10.0419.C40
Gene No.	112833	Strand	+
Start	1	End	1271
Name	OJ991105_10.0419.C40.o1.np	Method	AAT/NAP
Start	1	End	1271
GI	5107831	Score	703
Exons	1..88, 117..1271		
GI Descrip.	(AF149413) contains similarity to protein kinase domains (Pfam F00069, Score=162.6, E=6.8e-45, N=1) and leucien rich repeats (Pfam PF00560, Score=210.7, E=2.2e-59, N=10) [Arabidopsis thaliana]		

Seq. No.	53655	Seq. ID	OJ991105_10.0419.C40
Gene No.	112833	Strand	+
Start	1	End	1271
Name	OJ991105_10.0419.C40.o1.tc	Method	TBLASTX:Cress
Start	2	End	1243
GI	none	Score	75
Exons	2..94, 2..169, 137..334, 149..259, 149..250, 149..250, 149..259, 152..250, 215..451, 227..487, 266..481, 269..418, 278..487, 278..484, 281..484, 289..408, 290..481, 293..334, 301..399, 323..475, 365..472, 378..470, 383..481, 383..472, 389..496,		

422..679, 449..478, 491..742, 494..742, 500..727, 500..742,
500..556, 500..742, 506..691, 527..718, 572..775, 782..832,
809..835, 848..895, 854..898, 868..897, 869..898, 911..1135,
911..1135, 911..1075, 922..1113, 923..1243, 923..1132,
923..1201, 923..1135, 923..1114, 929..1138, 931..1242,
940..1032, 940..1146, 952..1200, 952..1116, 983..1132,
1133..1192

Seq. No.	53655	Seq. ID	OJ991105_10.0419.C40
Gene No.	112833	Strand	+
Start	1	End	1271
Name	OJ991105_10.0419.C40.o1.ts	Method	TBLASTX:Soybean
Start	2	End	1195
GI	none	Score	52

Exons 2..76, 2..76, 148..246, 149..244, 149..256, 149..484, 149..250,
167..250, 169..255, 277..402, 278..478, 278..481, 289..528,
290..490, 383..484, 383..505, 383..481, 500..742, 500..652,
509..691, 509..691, 581..691, 785..838, 866..1129, 908..1138,
914..1126, 920..1114, 923..1132, 923..1120, 923..1132,
932..1123, 995..1135, 1115..1195, 1133..1195

Seq. No.	53655	Seq. ID	OJ991105_10.0419.C40
Gene No.	112833	Strand	+
Start	1	End	1271
Name	OJ991105_10.0419.C40.o1.tm	Method	TBLASTX:Maize
Start	148	End	1192
GI	none	Score	85

Exons 148..243, 149..250, 257..496, 290..472, 292..525, 302..484,
304..390, 500..691, 509..700, 581..742, 782..838, 806..835,
845..895, 923..1114, 923..1126, 940..1122, 995..1132,
1009..1125, 1133..1192

Seq. No.	53655	Seq. ID	OJ991105_10.0419.C40
Gene No.	112833	Strand	+
Start	1	End	1271
Name	OJ991105_10.0419.C40.o1.gs	Method	GENSCAN
Start	158	End	1259
GI	none	Score	.93

Exons 158..1259

Seq. No.	53655	Seq. ID	OJ991105_10.0419.C40
Gene No.	112833	Strand	+
Start	1	End	1271
Name	OJ991105_10.0419.C40.o2.gp	Method	AAT/GAP
Start	301	End	742
GI	2317319	Score	862

Exons 301..742

GI Descrip. 5107831/gb|AAD40144.1|AF149413_25 4.0e-20 (AF149413) contains
similarity to protein kinase domains (Pfam F00069, Score=162.6,
E=6.8e-45, N=1) and leucien rich repeats (Pfam PF00560,
Score=210.7, E=2.2e-59, N=10) [Arabidopsis thaliana]

Seq. No.	53655	Seq. ID	OJ991105_10.0419.C40
Gene No.	112833	Strand	+
Start	1	End	1271
Name	OJ991105_10.0419.C40.o3.gp	Method	AAT/GAP
Start	748	End	1059

GI	426132	Score	607
Exons	748..1059		
GI Descrip.	5107831/gb|AAD40144.1|AF149413_25 2.0e-11 (AF149413) contains similarity to protein kinase domains (Pfam F00069, Score=162.6, E=6.8e-45, N=1) and leucien rich repeats (Pfam PF00560, Score=210.7, E=2.2e-59, N=10) [Arabidopsis thaliana]		

Seq. No.	53655	Seq. ID	OJ991105_10.0419.C40
Gene No.	112833	Strand	+
Start	1	End	1271
Name	OJ991105_10.0419.C40.o1.tw	Method	TBLASTX:Wheat
Start	1118	End	1270
GI	none	Score	179
Exons	1118..1270, 1118..1267, 1120..1269		

Seq. No.	53656	Seq. ID	OJ991105_10.0419.C41
Gene No.	112834	Strand	+
Start	1	End	1390
Name	OJ991105_10.0419.C41.o1.np	Method	AAT/NAP
Start	1	End	624
GI	5107831	Score	338
Exons	1..98, 203..624		
GI Descrip.	(AF149413) contains similarity to protein kinase domains (Pfam F00069, Score=162.6, E=6.8e-45, N=1) and leucien rich repeats (Pfam PF00560, Score=210.7, E=2.2e-59, N=10) [Arabidopsis thaliana]		

Seq. No.	53656	Seq. ID	OJ991105_10.0419.C41
Gene No.	112834	Strand	+
Start	1	End	1390
Name	OJ991105_10.0419.C41.o1.gs	Method	GENSCAN
Start	59	End	660
GI	none	Score	.96
Exons	59..98, 203..660		

Seq. No.	53656	Seq. ID	OJ991105_10.0419.C41
Gene No.	112834	Strand	+
Start	1	End	1390
Name	OJ991105_10.0419.C41.o1.gp	Method	AAT/GAP
Start	344	End	1390
GI	none	Score	2030
Exons	344..1390		

Seq. No.	53656	Seq. ID	OJ991105_10.0419.C41
Gene No.	112835	Strand	-
Start	1238	End	2134
Name	OJ991105_10.0419.C41.o2.tm	Method	TBLASTX:Maize
Start	2	End	510
GI	none	Score	154
Exons	2..97, 2..97, 3..98, 201..509, 202..510		

Seq. No.	53656	Seq. ID	OJ991105_10.0419.C41
Gene No.	112835	Strand	-
Start	1238	End	2134
Name	OJ991105_10.0419.C41.o2.ts	Method	TBLASTX:Soybean
Start	10	End	351
GI	none	Score	83

Exons	10..96, 11..97, 201..335, 202..351, 211..345		
Seq. No.	53656	Seq. ID	OJ991105_10.0419.C41
Gene No.	112835	Strand	-
Start	1238	End	2134
Name	OJ991105_10.0419.C41.o1.tm	Method	TBLASTX:Maize
Start	890	End	1771
GI	none	Score	63
Exons	890..979, 930..980, 930..980, 1027..1062, 1030..1140, 1032..1091, 1035..1154, 1228..1584, 1230..1586, 1238..1591, 1239..1586, 1642..1761, 1676..1771		
Seq. No.	53656	Seq. ID	OJ991105_10.0419.C41
Gene No.	112835	Strand	-
Start	1238	End	2134
Name	OJ991105_10.0419.C41.o2.np	Method	AAT/NAP
Start	1235	End	2134
GI	6594672	Score	375
Exons	1235..1585, 1678..1761, 2112..2134		
GI Descrip.	(AF118132) chloroplast outer envelope hexokinase 1 [Spinacia oleracea]		
Seq. No.	53656	Seq. ID	OJ991105_10.0419.C41
Gene No.	112835	Strand	-
Start	1238	End	2134
Name	OJ991105_10.0419.C41.o2.gs	Method	GENSCAN
Start	1238	End	1759
GI	none	Score	.92
Exons	1238..1585, 1678..1759		
Seq. No.	53656	Seq. ID	OJ991105_10.0419.C41
Gene No.	112835	Strand	-
Start	1238	End	2134
Name	OJ991105_10.0419.C41.o1.ts	Method	TBLASTX:Soybean
Start	1241	End	1762
GI	none	Score	134
Exons	1241..1432, 1242..1427, 1463..1591, 1499..1588, 1669..1761, 1670..1762		
Seq. No.	53656	Seq. ID	OJ991105_10.0419.C41
Gene No.	112835	Strand	-
Start	1238	End	2134
Name	OJ991105_10.0419.C41.o1.tw	Method	TBLASTX:Wheat
Start	1241	End	1499
GI	none	Score	159
Exons	1241..1447, 1242..1448, 1437..1499, 1463..1498		
Seq. No.	53656	Seq. ID	OJ991105_10.0419.C41
Gene No.	112835	Strand	-
Start	1238	End	2134
Name	OJ991105_10.0419.C41.o1.tc	Method	TBLASTX:Cress
Start	1247	End	1771
GI	none	Score	98
Exons	1247..1441, 1260..1427, 1419..1586, 1463..1591, 1675..1761, 1676..1771		
Seq. No.	53657	Seq. ID	OJ991105_10.0419.C42

Gene No.	112836	Strand	-
Start	1	End	1393
Name	OJ991105_10.0419.C42.o1.np	Method	AAT/NAP
Start	1	End	1393
GI	6594672	Score	407
Exons	1..54, 395..577, 661..817, 1320..1393		
GI Descrip.	(AF118132) chloroplast outer envelope hexokinase 1 [Spinacia oleracea]		

Seq. No.	53657	Seq. ID	OJ991105_10.0419.C42
Gene No.	112836	Strand	-
Start	1	End	1393
Name	OJ991105_10.0419.C42.o1.ts	Method	TBLASTX:Soybean
Start	1	End	810
GI	none	Score	173
Exons	1..54, 392..580, 393..578, 664..810, 665..808		

Seq. No.	53657	Seq. ID	OJ991105_10.0419.C42
Gene No.	112836	Strand	-
Start	1	End	1393
Name	OJ991105_10.0419.C42.o1.tm	Method	TBLASTX:Maize
Start	2	End	813
GI	none	Score	77
Exons	2..55, 5..55, 6..56, 6..56, 274..396, 392..577, 393..578, 394..579, 659..808, 661..810, 751..813		

Seq. No.	53657	Seq. ID	OJ991105_10.0419.C42
Gene No.	112836	Strand	-
Start	1	End	1393
Name	OJ991105_10.0419.C42.o1.tc	Method	TBLASTX:Cress
Start	392	End	810
GI	none	Score	218
Exons	392..577, 393..578, 404..580, 664..810, 665..808		

Seq. No.	53657	Seq. ID	OJ991105_10.0419.C42
Gene No.	112836	Strand	-
Start	1	End	1393
Name	OJ991105_10.0419.C42.o1.gp	Method	AAT/GAP
Start	417	End	811
GI	42486_1.R1084	Score	580
Exons	417..577, 661..811		
GI Descrip.	'2146739/pir||S71205 8.0e-57 hexokinase (EC 2.7.1.1) 1 - Arabidopsis thaliana >gi_881521 (U28214) hexokinase 1 [Arabidopsis thaliana] >gi_4972059_emb_CAB43927.1_ (AL078470) hexokinase [Arabidopsis thaliana]'		

Seq. No.	53657	Seq. ID	OJ991105_10.0419.C42
Gene No.	112836	Strand	-
Start	1	End	1393
Name	OJ991105_10.0419.C42.o1.gs	Method	GENSCAN
Start	661	End	811
GI	none	Score	.88
Exons	661..811		

Seq. No.	53658	Seq. ID	OJ991105_10.0419.C43
Gene No.	112837	Strand	-
Start	442	End	790

Name	OJ991105_10.0419.C43.o1.gs	Method	GENSCAN
Start	442	End	790
GI	none	Score	.44
Exons	442..566, 703..790		

Seq. No.	53659	Seq. ID	OJ991105_10.0419.C44
Gene No.	112838	Strand	-
Start	1	End	885
Name	OJ991105_10.0419.C44.o1.np	Method	AAT/NAP
Start	1	End	885
GI	6815109	Score	138
Exons	1..72, 661..697, 752..885		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	53659	Seq. ID	OJ991105_10.0419.C44
Gene No.	112838	Strand	-
Start	1	End	885
Name	OJ991105_10.0419.C44.o1.gs	Method	GENSCAN
Start	205	End	421
GI	none	Score	.6
Exons	205..421		

Seq. No.	53660	Seq. ID	OJ991105_10.0419.C45
Gene No.	112839	Strand	+
Start	1	End	1484
Name	OJ991105_10.0419.C45.o1.np	Method	AAT/NAP
Start	1	End	1484
GI	4680209	Score	724
Exons	1..211, 448..530, 777..888, 982..1347, 1446..1484		
GI Descrip.	(AF114171) unknown [Sorghum bicolor]		

Seq. No.	53660	Seq. ID	OJ991105_10.0419.C45
Gene No.	112839	Strand	+
Start	1	End	1484
Name	OJ991105_10.0419.C45.o1.gs	Method	GENSCAN
Start	136	End	1270
GI	none	Score	.64
Exons	136..207, 309..888, 1134..1270		

Seq. No.	53660	Seq. ID	OJ991105_10.0419.C45
Gene No.	112839	Strand	+
Start	1	End	1484
Name	OJ991105_10.0419.C45.o2.tm	Method	TBLASTX:Maize
Start	644	End	890
GI	none	Score	273
Exons	644..889, 645..890		

Seq. No.	53660	Seq. ID	OJ991105_10.0419.C45
Gene No.	112839	Strand	+
Start	1	End	1484
Name	OJ991105_10.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	1046	End	1474
GI	none	Score	58
Exons	1046..1105, 1124..1474		

Seq. No.	53661	Seq. ID	OJ991105_10.0419.C47
Gene No.	112840	Strand	-

Start	320	End	505
Name	OJ991105_10.0419.C47.o1.np	Method	AAT/NAP
Start	320	End	505
GI	6598344	Score	58
Exons	320..505		
GI Descrip.	(AC002335) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53662	Seq. ID	OJ991105_10.0419.C51
Gene No.	112841	Strand	+
Start	1	End	456
Name	OJ991105_10.0419.C51.o1.np	Method	AAT/NAP
Start	1	End	441
GI	3643608	Score	299
Exons	1..183, 309..441		
GI Descrip.	(AC005395) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53662	Seq. ID	OJ991105_10.0419.C51
Gene No.	112841	Strand	+
Start	1	End	456
Name	OJ991105_10.0419.C51.o1.tm	Method	TBLASTX:Maize
Start	125	End	456
GI	none	Score	87
Exons	125..184, 133..186, 133..186, 309..425, 310..426, 310..456		

Seq. No.	53663	Seq. ID	OJ991105_10.0419.C52
Gene No.	112842	Strand	+
Start	1	End	2696
Name	OJ991105_10.0419.C52.o1.np	Method	AAT/NAP
Start	1	End	2521
GI	4415916	Score	545
Exons	1..300, 382..588, 1854..2089, 2316..2521		
GI Descrip.	(AC006282) putative pectinesterase [Arabidopsis thaliana]		

Seq. No.	53663	Seq. ID	OJ991105_10.0419.C52
Gene No.	112842	Strand	+
Start	1	End	2696
Name	OJ991105_10.0419.C52.o1.gs	Method	GENSCAN
Start	65	End	2696
GI	none	Score	.61
Exons	65..109, 111..300, 382..588, 1854..2089, 2316..2447, 2589..2696		

Seq. No.	53663	Seq. ID	OJ991105_10.0419.C52
Gene No.	112842	Strand	+
Start	1	End	2696
Name	OJ991105_10.0419.C52.o1.tm	Method	TBLASTX:Maize
Start	106	End	601
GI	none	Score	131
Exons	106..195, 108..203, 112..207, 210..329, 211..309, 354..578, 361..588, 439..588, 443..601		

Seq. No.	53663	Seq. ID	OJ991105_10.0419.C52
Gene No.	112842	Strand	+
Start	1	End	2696
Name	OJ991105_10.0419.C52.o1.ts	Method	TBLASTX:Soybean
Start	111	End	1901
GI	none	Score	120
Exons	111..200, 112..207, 223..300, 225..299, 379..588, 381..581,		

1851..1901

Seq. No.	53663	Seq. ID	OJ991105_10.0419.C52
Gene No.	112842	Strand	+
Start	1	End	2696
Name	OJ991105_10.0419.C52.o1.tw	Method	TBLASTX:Wheat
Start	112	End	588
GI	none	Score	122
Exons	112..300, 192..281, 379..588, 381..566		

Seq. No.	53663	Seq. ID	OJ991105_10.0419.C52
Gene No.	112842	Strand	+
Start	1	End	2696
Name	OJ991105_10.0419.C52.o1.tc	Method	TBLASTX:Cress
Start	381	End	2045
GI	none	Score	247
Exons	381..578, 382..588, 1857..1958, 1926..2045		

Seq. No.	53663	Seq. ID	OJ991105_10.0419.C52
Gene No.	112842	Strand	+
Start	1	End	2696
Name	OJ991105_10.0419.C52.o2.tm	Method	TBLASTX:Maize
Start	1857	End	2090
GI	none	Score	326
Exons	1857..2090, 1913..2089		

Seq. No.	53663	Seq. ID	OJ991105_10.0419.C52
Gene No.	112842	Strand	+
Start	1	End	2696
Name	OJ991105_10.0419.C52.o3.tm	Method	TBLASTX:Maize
Start	2315	End	2468
GI	none	Score	235
Exons	2315..2344, 2317..2463, 2317..2463, 2331..2468		

Seq. No.	53664	Seq. ID	OJ991105_10.0419.C56
Gene No.	112843	Strand	+
Start	3723	End	6348
Name	OJ991105_10.0419.C56.o1.np	Method	AAT/NAP
Start	3723	End	6348
GI	4680179	Score	3411
Exons	3723..4481, 4508..6348		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	53664	Seq. ID	OJ991105_10.0419.C56
Gene No.	112843	Strand	+
Start	3723	End	6348
Name	OJ991105_10.0419.C56.o2.gs	Method	GENSCAN
Start	3723	End	6324
GI	none	Score	.62
Exons	3723..4116, 4288..4436, 4613..6324		

Seq. No.	53664	Seq. ID	OJ991105_10.0419.C56
Gene No.	112844	Strand	-
Start	608	End	3094
Name	OJ991105_10.0419.C56.o1.gs	Method	GENSCAN
Start	608	End	3094
GI	none	Score	.52

Exons	608..1105, 1222..1309, 2057..2175, 2584..2721, 2951..3094		
Seq. No.	53664	Seq. ID	OJ991105_10.0419.C56
Gene No.	112845	Strand	
Start	3936	End	4469
Name	OJ991105_10.0419.C56.o3.tw	Method	TBLASTX:Wheat
Start	3936	End	4316
GI	none	Score	302
Exons	3936..4316, 3956..4315		
Seq. No.	53664	Seq. ID	OJ991105_10.0419.C56
Gene No.	112845	Strand	
Start	3936	End	4469
Name	OJ991105_10.0419.C56.o3.tm	Method	TBLASTX:Maize
Start	4197	End	4469
GI	none	Score	203
Exons	4197..4469, 4220..4384		
Seq. No.	53664	Seq. ID	OJ991105_10.0419.C56
Gene No.	112846	Strand	
Start	4883	End	5284
Name	OJ991105_10.0419.C56.o4.tw	Method	TBLASTX:Wheat
Start	4883	End	5284
GI	none	Score	150
Exons	4883..5107, 4897..5049, 5111..5284, 5144..5203, 5185..5253		
Seq. No.	53664	Seq. ID	OJ991105_10.0419.C56
Gene No.	112846	Strand	
Start	4883	End	5284
Name	OJ991105_10.0419.C56.o4.tm	Method	TBLASTX:Maize
Start	4921	End	5197
GI	none	Score	195
Exons	4921..5022, 4922..5197		
Seq. No.	53664	Seq. ID	OJ991105_10.0419.C56
Gene No.	112847	Strand	
Start	5459	End	6346
Name	OJ991105_10.0419.C56.o1.tw	Method	TBLASTX:Wheat
Start	5459	End	5941
GI	none	Score	544
Exons	5459..5941, 5563..5898		
Seq. No.	53664	Seq. ID	OJ991105_10.0419.C56
Gene No.	112847	Strand	
Start	5459	End	6346
Name	OJ991105_10.0419.C56.o2.ts	Method	TBLASTX:Soybean
Start	5495	End	5809
GI	none	Score	183
Exons	5495..5809		
Seq. No.	53664	Seq. ID	OJ991105_10.0419.C56
Gene No.	112847	Strand	
Start	5459	End	6346
Name	OJ991105_10.0419.C56.o1.tm	Method	TBLASTX:Maize
Start	5528	End	5995
GI	none	Score	387
Exons	5528..5995, 5599..5898		

Seq. No.	53664	Seq. ID	OJ991105_10.0419.C56
Gene No.	112847	Strand	
Start	5459	End	6346
Name	OJ991105_10.0419.C56.o1.ts	Method	TBLASTX:Soybean
Start	5882	End	6277
GI	none	Score	57
Exons	5882..5914, 5884..5910, 5918..6277, 5925..5996, 5930..6247, 6022..6276		

Seq. No.	53664	Seq. ID	OJ991105_10.0419.C56
Gene No.	112847	Strand	
Start	5459	End	6346
Name	OJ991105_10.0419.C56.o2.tw	Method	TBLASTX:Wheat
Start	5990	End	6346
GI	none	Score	462
Exons	5990..6346, 6022..6342		

Seq. No.	53664	Seq. ID	OJ991105_10.0419.C56
Gene No.	112847	Strand	
Start	5459	End	6346
Name	OJ991105_10.0419.C56.o2.tm	Method	TBLASTX:Maize
Start	6011	End	6346
GI	none	Score	314
Exons	6011..6346, 6079..6342		

Seq. No.	53665	Seq. ID	OJ991105_10.0419.C57
Gene No.	112848	Strand	+
Start	1	End	1273
Name	OJ991105_10.0419.C57.o1.np	Method	AAT/NAP
Start	1	End	1273
GI	4680179	Score	2169
Exons	1..1273		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	53665	Seq. ID	OJ991105_10.0419.C57
Gene No.	112848	Strand	+
Start	1	End	1273
Name	OJ991105_10.0419.C57.o2.tw	Method	TBLASTX:Wheat
Start	1	End	423
GI	none	Score	544
Exons	1..423, 34..387, 168..422		

Seq. No.	53665	Seq. ID	OJ991105_10.0419.C57
Gene No.	112848	Strand	+
Start	1	End	1273
Name	OJ991105_10.0419.C57.o1.gs	Method	GENSCAN
Start	40	End	1188
GI	none	Score	.7
Exons	40..1188		

Seq. No.	53665	Seq. ID	OJ991105_10.0419.C57
Gene No.	112848	Strand	+
Start	1	End	1273
Name	OJ991105_10.0419.C57.o1.tc	Method	TBLASTX:Cress
Start	130	End	447
GI	none	Score	89

Exons	130..303, 304..447, 306..446		
Seq. No.	53665	Seq. ID	OJ991105_10.0419.C57
Gene No.	112848	Strand	+
Start	1	End	1273
Name	OJ991105_10.0419.C57.o1.ts	Method	TBLASTX:Soybean
Start	211	End	471
GI	none	Score	299
Exons	211..471, 216..470		
Seq. No.	53665	Seq. ID	OJ991105_10.0419.C57
Gene No.	112848	Strand	+
Start	1	End	1273
Name	OJ991105_10.0419.C57.o2.tm	Method	TBLASTX:Maize
Start	270	End	561
GI	none	Score	390
Exons	270..557, 271..561		
Seq. No.	53665	Seq. ID	OJ991105_10.0419.C57
Gene No.	112848	Strand	+
Start	1	End	1273
Name	OJ991105_10.0419.C57.o1.tw	Method	TBLASTX:Wheat
Start	430	End	1056
GI	none	Score	732
Exons	430..1056, 432..1055		
Seq. No.	53665	Seq. ID	OJ991105_10.0419.C57
Gene No.	112848	Strand	+
Start	1	End	1273
Name	OJ991105_10.0419.C57.o1.tm	Method	TBLASTX:Maize
Start	610	End	1197
GI	none	Score	226
Exons	610..771, 618..764, 768..1196, 769..1197		
Seq. No.	53665	Seq. ID	OJ991105_10.0419.C57
Gene No.	112848	Strand	+
Start	1	End	1273
Name	OJ991105_10.0419.C57.o3.tw	Method	TBLASTX:Wheat
Start	1056	End	1260
GI	none	Score	219
Exons	1056..1256, 1057..1260		
Seq. No.	53666	Seq. ID	OJ991015_06.0419.C2
Gene No.	112849	Strand	+
Start	1157	End	2619
Name	OJ991015_06.0419.C2.o1.np	Method	AAT/NAP
Start	1157	End	2619
GI	4680342	Score	595
Exons	1157..1724, 2572..2619		
GI Descrip.	(AF128457) hypothetical protein [Oryza sativa subsp. indica]		
Seq. No.	53666	Seq. ID	OJ991015_06.0419.C2
Gene No.	112850	Strand	-
Start	886	End	2074
Name	OJ991015_06.0419.C2.o1.gs	Method	GENSCAN
Start	886	End	2074
GI	none	Score	.62

Exons	886..909, 1153..1483, 1761..1927, 1984..2074		
Seq. No.	53667	Seq. ID	OJ991015_06.0419.C3
Gene No.	112851	Strand	+
Start	1229	End	1459
Name	OJ991015_06.0419.C3.o1.gs	Method	GENSCAN
Start	1229	End	1459
GI	none	Score	.58
Exons	1229..1459		
Seq. No.	53667	Seq. ID	OJ991015_06.0419.C3
Gene No.	112852	Strand	+
Start	3956	End	6789
Name	OJ991015_06.0419.C3.o3.np	Method	AAT/NAP
Start	3956	End	6789
GI	6815109	Score	383
Exons	3956..3982, 5348..5454, 5523..6789		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		
Seq. No.	53667	Seq. ID	OJ991015_06.0419.C3
Gene No.	112852	Strand	+
Start	3956	End	6789
Name	OJ991015_06.0419.C3.o2.np	Method	AAT/NAP
Start	4563	End	4652
GI	4680183	Score	119
Exons	4563..4652		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		
Seq. No.	53667	Seq. ID	OJ991015_06.0419.C3
Gene No.	112853	Strand	+
Start	9598	End	10326
Name	OJ991015_06.0419.C3.o4.np	Method	AAT/NAP
Start	8327	End	9745
GI	6907088	Score	1103
Exons	8327..8464, 8640..8877, 9361..9745		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		
Seq. No.	53667	Seq. ID	OJ991015_06.0419.C3
Gene No.	112853	Strand	+
Start	9598	End	10326
Name	OJ991015_06.0419.C3.o4.gs	Method	GENSCAN
Start	9598	End	10173
GI	none	Score	.95
Exons	9598..10173		
Seq. No.	53667	Seq. ID	OJ991015_06.0419.C3
Gene No.	112853	Strand	+
Start	9598	End	10326
Name	OJ991015_06.0419.C3.o5.np	Method	AAT/NAP
Start	9730	End	10326
GI	5734635	Score	167
Exons	9730..9858, 9910..10326		
GI Descrip.	(AP000391) hypothetical protein [Oryza sativa]		
Seq. No.	53667	Seq. ID	OJ991015_06.0419.C3
Gene No.	112854	Strand	-
Start	2469	End	4530

Name	OJ991015_06.0419.C3.o1.np	Method	AAT/NAP
Start	2469	End	4530
GI	6721561	Score	133
Exons	2469..2520, 4440..4530		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53668	Seq. ID	OJ991015_06.0419.C4
Gene No.	112855	Strand	+
Start	1304	End	2409
Name	OJ991015_06.0419.C4.o1.gs	Method	GENSCAN
Start	1304	End	2409
GI	none	Score	.56
Exons	1304..1351, 1885..2130, 2284..2409		

Seq. No.	53668	Seq. ID	OJ991015_06.0419.C4
Gene No.	112856	Strand	-
Start	1	End	3192
Name	OJ991015_06.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	1238
GI	6815109	Score	101
Exons	1..77, 234..419, 1118..1238		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	53668	Seq. ID	OJ991015_06.0419.C4
Gene No.	112856	Strand	-
Start	1	End	3192
Name	OJ991015_06.0419.C4.o2.np	Method	AAT/NAP
Start	1	End	3192
GI	5042454	Score	325
Exons	1..97, 1947..2284, 3089..3192		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	53669	Seq. ID	OJ991015_06.0419.C5
Gene No.	112857	Strand	-
Start	1839	End	2625
Name	OJ991015_06.0419.C5.o1.gs	Method	GENSCAN
Start	1839	End	2536
GI	none	Score	.88
Exons	1839..2536		

Seq. No.	53669	Seq. ID	OJ991015_06.0419.C5
Gene No.	112857	Strand	-
Start	1839	End	2625
Name	OJ991015_06.0419.C5.o1.np	Method	AAT/NAP
Start	1869	End	2625
GI	6587835	Score	774
Exons	1869..2625		
GI Descrip.	(AC006551) Similar to peptide transporter [Arabidopsis thaliana]		

Seq. No.	53669	Seq. ID	OJ991015_06.0419.C5
Gene No.	112857	Strand	-
Start	1839	End	2625
Name	OJ991015_06.0419.C5.o1.ts	Method	TBLASTX:Soybean

Start	1869	End	2610
GI	none	Score	134
Exons	1869..2609, 1969..2220, 2452..2610		

Seq. No.	53669	Seq. ID	OJ991015_06.0419.C5
Gene No.	112857	Strand	-
Start	1839	End	2625
Name	OJ991015_06.0419.C5.o1.tw	Method	TBLASTX:Wheat
Start	1878	End	2196
GI	none	Score	37
Exons	1878..2009, 1902..1952, 1969..2010, 2001..2195, 2002..2196		

Seq. No.	53669	Seq. ID	OJ991015_06.0419.C5
Gene No.	112857	Strand	-
Start	1839	End	2625
Name	OJ991015_06.0419.C5.o1.tc	Method	TBLASTX:Cress
Start	1881	End	2609
GI	none	Score	80
Exons	1881..1988, 2001..2222, 2205..2474, 2481..2609		

Seq. No.	53669	Seq. ID	OJ991015_06.0419.C5
Gene No.	112857	Strand	-
Start	1839	End	2625
Name	OJ991015_06.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	1956	End	2609
GI	none	Score	76
Exons	1956..2000, 2007..2228, 2119..2226, 2235..2471, 2481..2609		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112858	Strand	+
Start	8447	End	11542
Name	OJ991015_06.0419.C6.o5.gs	Method	GENSCAN
Start	8447	End	11542
GI	none	Score	.74
Exons	8447..8564, 9155..9305, 9636..9906, 10792..10957, 11223..11342, 11424..11542		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112859	Strand	+
Start	12428	End	13959
Name	OJ991015_06.0419.C6.o6.gs	Method	GENSCAN
Start	12428	End	13959
GI	none	Score	.66
Exons	12428..12490, 12603..12636, 12743..12914, 13785..13959		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112859	Strand	+
Start	12428	End	13959
Name	OJ991015_06.0419.C6.o2.np	Method	AAT/NAP
Start	12556	End	12921
GI	5102600	Score	267
Exons	12556..12636, 12701..12921		
GI Descrip.	(AJ005206) GEG protein [Gerbera hybrida]		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112860	Strand	+
Start	16314	End	18714

Name	OJ991015_06.0419.C6.o8.gs	Method	GENSCAN
Start	16314	End	18714
GI	none	Score	.94
Exons	16314..17354, 18199..18402, 18487..18714		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112860	Strand	+
Start	16314	End	18714
Name	OJ991015_06.0419.C6.o4.np	Method	AAT/NAP
Start	16347	End	18714
GI	7452466	Score	1241
Exons	16347..17354, 18199..18402, 18487..18714		
GI Descrip.	hypothetical protein T22A6.160 - Arabidopsis thaliana gi|5051775|emb|CAB45068.1| (AL078637) putative protein [Arabidopsis thaliana] gi|7269283|emb|CAB79343.1| (AL161561) putative protein [Arabidopsis thaliana]		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112861	Strand	-
Start	1	End	5863
Name	OJ991015_06.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	5820
GI	6587835	Score	644
Exons	1..504, 5374..5595, 5695..5820		
GI Descrip.	(AC006551) Similar to peptide transporter [Arabidopsis thaliana]		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112861	Strand	-
Start	1	End	5863
Name	OJ991015_06.0419.C6.o3.gs	Method	GENSCAN
Start	2710	End	3009
GI	none	Score	.99
Exons	2710..3009		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112861	Strand	-
Start	1	End	5863
Name	OJ991015_06.0419.C6.o4.gs	Method	GENSCAN
Start	5029	End	5863
GI	none	Score	.82
Exons	5029..5130, 5380..5597, 5632..5863		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112862	Strand	-
Start	13003	End	14650
Name	OJ991015_06.0419.C6.o3.np	Method	AAT/NAP
Start	13003	End	14650
GI	7523503	Score	131
Exons	13003..13023, 14444..14650		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112863	Strand	-
Start	21198	End	28598
Name	OJ991015_06.0419.C6.o10.gs	Method	GENSCAN
Start	21198	End	28592
GI	none	Score	.62

Exons	21198..21305, 21767..21807, 22568..22820, 22892..22913, 23504..23634, 24294..24342, 25833..25918, 26246..26267, 28345..28592		
Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112863	Strand	-
Start	21198	End	28598
Name	OJ991015_06.0419.C6.o5.np	Method	AAT/NAP
Start	22350	End	28598
GI	5091614	Score	1143
Exons	22350..22552, 22706..22799, 22865..22958, 23341..23424, 23504..23634, 23980..24036, 24294..24342, 25833..25918, 26190..26267, 26427..26549, 27180..27269, 27398..27478, 27554..27635, 28163..28252, 28345..28598		
GI Descrip.	(AC007454) Contains a PF|00561 alpha/beta hydrolase fold domain. [Arabidopsis thaliana]		
Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o1.tc	Method	TBLASTX:Cress
Start	64	End	378
GI	none	Score	155
Exons	64..378, 86..367		
Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o3.tm	Method	TBLASTX:Maize
Start	67	End	5763
GI	none	Score	200
Exons	67..390, 74..367, 5380..5595, 5381..5596, 5695..5763		
Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o2.ts	Method	TBLASTX:Soybean
Start	73	End	357
GI	none	Score	162
Exons	73..357, 77..334		
Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o5.tm	Method	TBLASTX:Maize
Start	835	End	8484
GI	none	Score	87
Exons	835..996, 886..1029, 917..1009, 1033..1065, 1038..1064, 1067..1096, 1162..1314, 1189..1311, 1273..1452, 1315..1374, 1364..1429, 1379..1429, 1380..1430, 1430..1531, 1431..1532, 1431..1532, 1432..1533, 8416..8484		
Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o4.ts	Method	TBLASTX:Soybean
Start	922	End	1532

GI	none	Score	79
Exons	922..975, 1038..1064, 1189..1314, 1226..1315, 1320..1358, 1370..1432, 1379..1429, 1437..1532, 1440..1532		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o6.tc	Method	TBLASTX:Cress
Start	1183	End	1532
GI	none	Score	107
Exons	1183..1314, 1320..1358, 1361..1429, 1437..1532		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o5.ts	Method	TBLASTX:Soybean
Start	5380	End	5829
GI	none	Score	107
Exons	5380..5595, 5381..5596, 5695..5829		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o5.tc	Method	TBLASTX:Cress
Start	5404	End	5766
GI	none	Score	121
Exons	5404..5592, 5405..5593, 5695..5766		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o2.tm	Method	TBLASTX:Maize
Start	12418	End	12927
GI	none	Score	47
Exons	12418..12486, 12418..12498, 12603..12635, 12603..12635, 12739..12927, 12741..12920		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o3.tc	Method	TBLASTX:Cress
Start	12736	End	12924
GI	none	Score	252
Exons	12736..12924, 12741..12920		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o3.ts	Method	TBLASTX:Soybean
Start	12736	End	12927
GI	none	Score	271
Exons	12736..12927, 12741..12920		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o2.tw	Method	TBLASTX:Wheat

Start	12741	End	12983
GI	none	Score	44
Exons	12741..12809, 12742..12951, 12744..12932, 12888..12983		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o1.ts	Method	TBLASTX:Soybean
Start	16635	End	18561
GI	none	Score	63
Exons	16635..16673, 16794..16964, 16802..16969, 16947..17261, 16949..17263, 17259..17357, 18191..18343, 18195..18389, 18196..18399, 18196..18387, 18198..18395, 18484..18561		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o4.tc	Method	TBLASTX:Cress
Start	16635	End	16973
GI	none	Score	64
Exons	16635..16670, 16791..16973, 16799..16969		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o1.tw	Method	TBLASTX:Wheat
Start	16955	End	17165
GI	none	Score	316
Exons	16955..17164, 16956..17165		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o2.tc	Method	TBLASTX:Cress
Start	17016	End	18735
GI	none	Score	256
Exons	17016..17237, 17021..17236, 18202..18336, 18211..18399, 18216..18395, 18484..18561, 18495..18560, 18622..18735, 18682..18723		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o1.tm	Method	TBLASTX:Maize
Start	17136	End	18772
GI	none	Score	333
Exons	17136..17360, 17136..17174, 17141..17356, 17223..17366, 18175..18402, 18181..18402, 18185..18403, 18461..18640, 18486..18560, 18488..18721, 18597..18722, 18616..18723, 18740..18772		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o6.tm	Method	TBLASTX:Maize
Start	20154	End	21725
GI	none	Score	213

Exons	20154..20324, 20158..20322, 20418..20552, 20449..20553, 21281..21439, 21283..21435, 21290..21442, 21555..21656, 21555..21650, 21562..21654, 21696..21725		
Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o7.tm	Method	TBLASTX:Maize
Start	22352	End	22526
GI	none	Score	80
Exons	22352..22510, 22353..22520, 22353..22526		
Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o4.tm	Method	TBLASTX:Maize
Start	22892	End	24021
GI	none	Score	78
Exons	22892..22960, 22892..22957, 23333..23425, 23334..23426, 23335..23454, 23338..23430, 23503..23637, 23504..23635, 23504..23665, 23505..23636, 23980..24021		
Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o6.ts	Method	TBLASTX:Soybean
Start	23539	End	27466
GI	none	Score	67
Exons	23539..23637, 23540..23635, 25829..25924, 25833..25910, 25835..25918, 26194..26262, 26196..26267, 26415..26555, 26424..26549, 26428..26550, 27180..27269, 27398..27466, 27408..27464		
Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o9.tm	Method	TBLASTX:Maize
Start	25860	End	26549
GI	none	Score	91
Exons	25860..25943, 25861..25923, 26182..26238, 26185..26268, 26189..26272, 26189..26263, 26196..26267, 26402..26548, 26424..26549, 26426..26548		
Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o8.tm	Method	TBLASTX:Maize
Start	27189	End	28398
GI	none	Score	80
Exons	27189..27269, 27193..27270, 27194..27268, 27195..27290, 27398..27505, 27399..27503, 27551..27637, 27559..27630, 27561..27644, 27564..27644, 28151..28255, 28162..28254, 28333..28398, 28344..28397		
Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030

Name	OJ991015_06.0419.C6.o11.gs	Method	GENSCAN
Start	29301	End	31030
GI	none	Score	.86
Exons	29301..29398, 30473..30570, 30804..31030		

Seq. No.	53670	Seq. ID	OJ991015_06.0419.C6
Gene No.	112864	Strand	-
Start	29301	End	31030
Name	OJ991015_06.0419.C6.o6.np	Method	AAT/NAP
Start	29330	End	31021
GI	3204125	Score	214
Exons	29330..29398, 30473..30570, 30804..31021		
GI Descrip.	(AJ006766) putative Pi starvation-induced protein [Cicer arietinum]		

Seq. No.	53671	Seq. ID	OJ991015_06.0419.C7
Gene No.	112865	Strand	+
Start	1	End	2988
Name	OJ991015_06.0419.C7.o1.np	Method	AAT/NAP
Start	1	End	1987
GI	5441880	Score	1655
Exons	1..53, 284..582, 659..917, 1162..1259, 1506..1637, 1753..1987		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	53671	Seq. ID	OJ991015_06.0419.C7
Gene No.	112865	Strand	+
Start	1	End	2988
Name	OJ991015_06.0419.C7.o1.gs	Method	GENSCAN
Start	284	End	2988
GI	none	Score	.64
Exons	284..582, 659..917, 1010..1135, 1162..1259, 1506..1637, 1701..1748, 1753..1955, 2106..2272, 2848..2988		

Seq. No.	53671	Seq. ID	OJ991015_06.0419.C7
Gene No.	112865	Strand	+
Start	1	End	2988
Name	OJ991015_06.0419.C7.o1.gp	Method	AAT/GAP
Start	410	End	909
GI	LIB3475-007-P1-K1-G8	Score	809
Exons	410..582, 659..909		
GI Descrip.	'5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	53671	Seq. ID	OJ991015_06.0419.C7
Gene No.	112865	Strand	+
Start	1	End	2988
Name	OJ991015_06.0419.C7.o2.gp	Method	AAT/GAP
Start	2091	End	2544
GI	LIB3431-045-P1-N1-A10	Score	840
Exons	2091..2544		
GI Descrip.	'5441876/dbj|AP000367.1|AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		

Seq. No.	53671	Seq. ID	OJ991015_06.0419.C7

Gene No.	112865	Strand	+
Start	1	End	2988
Name	OJ991015_06.0419.C7.o2.np	Method	AAT/NAP
Start	2106	End	2290
GI	7228442	Score	285
Exons	2106..2290		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	53671	Seq. ID	OJ991015_06.0419.C7
Gene No.	112866	Strand	-
Start	1695	End	2940
Name	OJ991015_06.0419.C7.o3.np	Method	AAT/NAP
Start	1695	End	2940
GI	6721543	Score	103
Exons	1695..1754, 2810..2940		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	53671	Seq. ID	OJ991015_06.0419.C7
Gene No.	112866	Strand	-
Start	1695	End	2940
Name	OJ991015_06.0419.C7.o3.gp	Method	AAT/GAP
Start	2487	End	2926
GI	7406_1.R1084	Score	584
Exons	2487..2561, 2596..2926		
GI Descrip.	'1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	53671	Seq. ID	OJ991015_06.0419.C7
Gene No.	112867	Strand	-
Start	4330	End	6638
Name	OJ991015_06.0419.C7.o2.gs	Method	GENSCAN
Start	4330	End	6633
GI	none	Score	.93
Exons	4330..4569, 5850..6143, 6321..6419, 6530..6633		

Seq. No.	53671	Seq. ID	OJ991015_06.0419.C7
Gene No.	112867	Strand	-
Start	4330	End	6638
Name	OJ991015_06.0419.C7.o1.tm	Method	TBLASTX:Maize
Start	5712	End	6638
GI	none	Score	156
Exons	5712..5756, 5808..5870, 5949..6158, 5962..6153, 5999..6154, 6307..6423, 6327..6410, 6327..6425, 6521..6586, 6522..6572, 6550..6633, 6572..6637, 6578..6634, 6579..6638		

Seq. No.	53671	Seq. ID	OJ991015_06.0419.C7
Gene No.	112867	Strand	-
Start	4330	End	6638
Name	OJ991015_06.0419.C7.o4.np	Method	AAT/NAP
Start	5829	End	6633
GI	2129803	Score	352
Exons	5829..6143, 6321..6419, 6530..6633		
GI Descrip.	probable serine/threonine-specific protein kinase (EC 2.7.1.-) BSK2 - rape gi|289374|gb|AAA33004.1| (L12394) serine/threonine protein kinase [Brassica napus] gi|1097354|prf||2113401B protein		

kinase [Brassica napus]

Seq. No.	53672	Seq. ID	OJ991015_06.0419.C8
Gene No.	112868	Strand	+
Start	1	End	475
Name	OJ991015_06.0419.C8.o2.np	Method	AAT/NAP
Start	1	End	475
GI	4680183	Score	119
Exons	1..34, 386..475		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	53672	Seq. ID	OJ991015_06.0419.C8
Gene No.	112868	Strand	+
Start	1	End	475
Name	OJ991015_06.0419.C8.o1.gs	Method	GENSCAN
Start	120	End	225
GI	none	Score	.64
Exons	120..225		

Seq. No.	53672	Seq. ID	OJ991015_06.0419.C8
Gene No.	112869	Strand	-
Start	263	End	353
Name	OJ991015_06.0419.C8.o1.np	Method	AAT/NAP
Start	263	End	353
GI	6721561	Score	135
Exons	263..353		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53672	Seq. ID	OJ991015_06.0419.C8
Gene No.	112870	Strand	-
Start	1121	End	1592
Name	OJ991015_06.0419.C8.o2.gs	Method	GENSCAN
Start	1121	End	1592
GI	none	Score	.49
Exons	1121..1323, 1328..1475, 1527..1592		

Seq. No.	53673	Seq. ID	OJ991015_06.0419.C9
Gene No.	112871	Strand	+
Start	94	End	1247
Name	OJ991015_06.0419.C9.o1.gs	Method	GENSCAN
Start	94	End	1247
GI	none	Score	.42
Exons	94..189, 555..623, 1194..1247		

Seq. No.	53673	Seq. ID	OJ991015_06.0419.C9
Gene No.	112872	Strand	+
Start	3368	End	4173
Name	OJ991015_06.0419.C9.o1.gp	Method	AAT/GAP
Start	3368	End	4173
GI	none	Score	1404
Exons	3368..3633, 3700..4173		

Seq. No.	53673	Seq. ID	OJ991015_06.0419.C9

Gene No.	112873	Strand	-
Start	1	End	2777
Name	OJ991015_06.0419.C9.o1.np	Method	AAT/NAP
Start	1	End	2777
GI	2055374	Score	500
Exons	1..89, 1309..1448, 1533..1625, 1795..1848, 1936..2037, 2442..2516, 2658..2777		
GI Descrip.	(U29095) serine-threonine protein kinase [Triticum aestivum]		

Seq. No.	53673	Seq. ID	OJ991015_06.0419.C9
Gene No.	112873	Strand	-
Start	1	End	2777
Name	OJ991015_06.0419.C9.o2.gs	Method	GENSCAN
Start	1909	End	2777
GI	none	Score	.77
Exons	1909..2037, 2442..2516, 2655..2777		

Seq. No.	53673	Seq. ID	OJ991015_06.0419.C9
Gene No.	112874	Strand	-
Start	3668	End	4316
Name	OJ991015_06.0419.C9.o1.tc	Method	TBLASTX:Cress
Start	1335	End	2784
GI	none	Score	92
Exons	1335..1439, 1335..1451, 1360..1449, 1533..1622, 1533..1625, 1534..1623, 1795..1863, 1802..1849, 1924..2049, 1931..2047, 2433..2519, 2664..2783, 2665..2784		

Seq. No.	53673	Seq. ID	OJ991015_06.0419.C9
Gene No.	112874	Strand	-
Start	3668	End	4316
Name	OJ991015_06.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	1335	End	2778
GI	none	Score	137
Exons	1335..1451, 1354..1449, 1533..1622, 1533..1625, 1534..1623, 1795..1863, 1796..1846, 1924..2049, 1931..2047, 1936..2049, 2433..2519, 2440..2502, 2661..2777, 2661..2777, 2665..2778, 2665..2778		

Seq. No.	53673	Seq. ID	OJ991015_06.0419.C9
Gene No.	112874	Strand	-
Start	3668	End	4316
Name	OJ991015_06.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	1335	End	2778
GI	none	Score	93
Exons	1335..1451, 1357..1449, 1412..1459, 1533..1622, 1533..1625, 1534..1623, 1795..1863, 1814..1849, 1924..2049, 1931..2032, 1936..2040, 2433..2519, 2664..2777, 2665..2778		

Seq. No.	53673	Seq. ID	OJ991015_06.0419.C9
Gene No.	112874	Strand	-
Start	3668	End	4316
Name	OJ991015_06.0419.C9.o1.tw	Method	TBLASTX:Wheat
Start	1335	End	2046
GI	none	Score	96
Exons	1335..1451, 1354..1449, 1533..1622, 1533..1625, 1534..1623, 1534..1632, 1795..1863, 1796..1849, 1924..2046, 1931..2023, 1936..2040		

Seq. No.	53673	Seq. ID	OJ991015_06.0419.C9
Gene No.	112874	Strand	-
Start	3668	End	4316
Name	OJ991015_06.0419.C9.o3.gs	Method	GENSCAN
Start	3668	End	4316
GI	none	Score	.62
Exons	3668..3705, 3922..4065, 4208..4316		

Seq. No.	53674	Seq. ID	OJ991015_06.0419.C11
Gene No.	112875	Strand	+
Start	5711	End	13110
Name	OJ991015_06.0419.C11.o2.gs	Method	GENSCAN
Start	5711	End	13110
GI	none	Score	.71
Exons	5711..5806, 5928..6142, 6241..6544, 8208..8313, 8595..8658, 9005..9326, 9956..10048, 12573..12776, 12947..13110		

Seq. No.	53674	Seq. ID	OJ991015_06.0419.C11
Gene No.	112876	Strand	-
Start	1361	End	5507
Name	OJ991015_06.0419.C11.o1.gs	Method	GENSCAN
Start	1361	End	5507
GI	none	Score	.61
Exons	1361..1518, 2156..2241, 2294..2554, 2614..2693, 3561..3949, 4482..4573, 5371..5507		

Seq. No.	53675	Seq. ID	OJ991015_06.0419.C12
Gene No.	112877	Strand	+
Start	154	End	1933
Name	OJ991015_06.0419.C12.o1.gs	Method	GENSCAN
Start	154	End	1933
GI	none	Score	.85
Exons	154..213, 317..574, 1654..1839, 1901..1933		

Seq. No.	53675	Seq. ID	OJ991015_06.0419.C12
Gene No.	112878	Strand	+
Start	2296	End	3398
Name	OJ991015_06.0419.C12.o2.gs	Method	GENSCAN
Start	2296	End	3398
GI	none	Score	.75
Exons	2296..2443, 2585..2790, 2838..3398		

Seq. No.	53675	Seq. ID	OJ991015_06.0419.C12
Gene No.	112879	Strand	+
Start	10303	End	11418
Name	OJ991015_06.0419.C12.o1.np	Method	AAT/NAP
Start	10303	End	11389
GI	7248408	Score	154
Exons	10303..10430, 10776..10985, 11110..11389		
GI Descrip.	(AP001389) ESTs AU082454(S3638),D41267(S3638) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone T5K18; hypothetical protein (AL022580) [Oryza sativa]		

Seq. No.	53675	Seq. ID	OJ991015_06.0419.C12
Gene No.	112879	Strand	+

Start	10303	End	11418
Name	OJ991015_06.0419.C12.o5.gs	Method	GENSCAN
Start	10757	End	11418
GI	none	Score	.88
Exons	10757..10957, 11110..11418		

Seq. No.	53675	Seq. ID	OJ991015_06.0419.C12
Gene No.	112880	Strand	-
Start	6595	End	8311
Name	OJ991015_06.0419.C12.o3.gs	Method	GENSCAN
Start	6595	End	8311
GI	none	Score	.69
Exons	6595..6785, 8191..8311		

Seq. No.	53675	Seq. ID	OJ991015_06.0419.C12
Gene No.	112881	Strand	-
Start	10105	End	10425
Name	OJ991015_06.0419.C12.o1.gp	Method	AAT/GAP
Start	9791	End	9868
GI	uC-osflM202097d10b1	Score	87
Exons	9791..9868		
GI Descrip.	'4062935/dbj|AB003495.1|AB003495 3.0e-14 Oryza sativa DNA for dihydroflavonol 4-reductase, complete cds'		

Seq. No.	53675	Seq. ID	OJ991015_06.0419.C12
Gene No.	112881	Strand	-
Start	10105	End	10425
Name	OJ991015_06.0419.C12.o4.gs	Method	GENSCAN
Start	10105	End	10425
GI	none	Score	.55
Exons	10105..10425		

Seq. No.	53675	Seq. ID	OJ991015_06.0419.C12
Gene No.	112882	Strand	-
Start	12641	End	13425
Name	OJ991015_06.0419.C12.o6.gs	Method	GENSCAN
Start	12641	End	13425
GI	none	Score	.74
Exons	12641..12805, 13369..13425		

Seq. No.	53676	Seq. ID	OJ991015_06.0419.C13
Gene No.	112883	Strand	+
Start	563	End	2512
Name	OJ991015_06.0419.C13.o1.gs	Method	GENSCAN
Start	563	End	2512
GI	none	Score	.8
Exons	563..674, 1042..1075, 1152..1191, 1470..1565, 2288..2512		

Seq. No.	53676	Seq. ID	OJ991015_06.0419.C13
Gene No.	112884	Strand	+
Start	4189	End	6941
Name	OJ991015_06.0419.C13.o2.gs	Method	GENSCAN
Start	4189	End	6941
GI	none	Score	.77
Exons	4189..4284, 4443..4600, 4741..4956, 5055..5455, 6654..6754, 6842..6941		

Seq. No.	53677	Seq. ID	OJ991015_06.0419.C14
Gene No.	112885	Strand	-
Start	852	End	1370
Name	OJ991015_06.0419.C14.o1.gs	Method	GENSCAN
Start	852	End	1370
GI	none	Score	.84
Exons	852..1370		

Seq. No.	53677	Seq. ID	OJ991015_06.0419.C14
Gene No.	112886	Strand	
Start	1665	End	1971
Name	OJ991015_06.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	1665	End	1971
GI	none	Score	43
Exons	1665..1712, 1665..1802, 1702..1803, 1831..1971, 1854..1967		

Seq. No.	53678	Seq. ID	OJ991115_09.0421.C3
Gene No.	112887	Strand	-
Start	883	End	1023
Name	OJ991115_09.0421.C3.o1.gs	Method	GENSCAN
Start	883	End	1023
GI	none	Score	.49
Exons	883..1023		

Seq. No.	53679	Seq. ID	OJ991115_09.0421.C4
Gene No.	112888	Strand	+
Start	1	End	2370
Name	OJ991115_09.0421.C4.o1.np	Method	AAT/NAP
Start	1	End	1231
GI	6069646	Score	507
Exons	1..663, 820..1231		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	53679	Seq. ID	OJ991115_09.0421.C4
Gene No.	112888	Strand	+
Start	1	End	2370
Name	OJ991115_09.0421.C4.o1.gs	Method	GENSCAN
Start	95	End	2370
GI	none	Score	.46
Exons	95..250, 308..673, 834..948, 1037..1172, 1910..2140, 2265..2370		

Seq. No.	53679	Seq. ID	OJ991115_09.0421.C4
Gene No.	112889	Strand	+
Start	11806	End	12101
Name	OJ991115_09.0421.C4.o1.gp	Method	AAT/GAP
Start	11806	End	12101
GI	93775_1.R1084	Score	549
Exons	11806..12101		
GI Descrip.	'6006355/dbj|AP000559.1|AP000559 4.0e-75 Oryza sativa genomic DNA, chromosome 6, clone:P0493C11'		

Seq. No.	53679	Seq. ID	OJ991115_09.0421.C4
Gene No.	112890	Strand	-

Start	3159	End	3588
Name	OJ991115_09.0421.C4.o2.np	Method	AAT/NAP
Start	3159	End	3588
GI	6006381	Score	196
Exons	3159..3588		
GI Descrip.	(AP000559) hypothetical protein [Oryza sativa]		

Seq. No.	53679	Seq. ID	OJ991115_09.0421.C4
Gene No.	112891	Strand	-
Start	10676	End	11303
Name	OJ991115_09.0421.C4.o3.gs	Method	GENSCAN
Start	10676	End	11303
GI	none	Score	.98
Exons	10676..10762, 11145..11303		

Seq. No.	53679	Seq. ID	OJ991115_09.0421.C4
Gene No.	112892	Strand	-
Start	11698	End	12153
Name	OJ991115_09.0421.C4.o4.gs	Method	GENSCAN
Start	11698	End	12153
GI	none	Score	.9
Exons	11698..12153		

Seq. No.	53679	Seq. ID	OJ991115_09.0421.C4
Gene No.	112893	Strand	-
Start	12079	End	12239
Name	OJ991115_09.0421.C4.o1.tm	Method	TBLASTX:Maize
Start	49	End	412
GI	none	Score	233
Exons	49..309, 50..322, 329..412		

Seq. No.	53679	Seq. ID	OJ991115_09.0421.C4
Gene No.	112893	Strand	-
Start	12079	End	12239
Name	OJ991115_09.0421.C4.o2.tm	Method	TBLASTX:Maize
Start	506	End	1204
GI	none	Score	69
Exons	506..586, 605..658, 818..991, 818..973, 1013..1204		

Seq. No.	53679	Seq. ID	OJ991115_09.0421.C4
Gene No.	112893	Strand	-
Start	12079	End	12239
Name	OJ991115_09.0421.C4.o2.gp	Method	AAT/GAP
Start	12079	End	12239
GI	2442490	Score	266
Exons	12079..12239		

Seq. No.	53680	Seq. ID	OJ991115_09.0421.C5
Gene No.	112894	Strand	+
Start	316	End	866
Name	OJ991115_09.0421.C5.o1.gs	Method	GENSCAN
Start	316	End	866
GI	none	Score	.7
Exons	316..340, 760..866		

Seq. No.	53680	Seq. ID	OJ991115_09.0421.C5
Gene No.	112895	Strand	+

Start	1435	End	1517
Name	OJ991115_09.0421.C5.o2.gp	Method	AAT/GAP
Start	1435	End	1517
GI	LIB3431-004-P1-K1-G12	Score	81
Exons	1435..1517		
GI Descrip.	'4680203/gb|AAD27566.1|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	53680	Seq. ID	OJ991115_09.0421.C5
Gene No.	112896	Strand	-
Start	1	End	286
Name	OJ991115_09.0421.C5.o1.gp	Method	AAT/GAP
Start	1	End	286
GI	76027_1.R1084	Score	558
Exons	1..286		
GI Descrip.	'4432839/gb|AAD20688| 1.0e-17 (AC006283) unknown protein [Arabidopsis thaliana]'		

Seq. No.	53680	Seq. ID	OJ991115_09.0421.C5
Gene No.	112896	Strand	-
Start	1	End	286
Name	OJ991115_09.0421.C5.o1.np	Method	AAT/NAP
Start	1	End	157
GI	4432839	Score	221
Exons	1..157		
GI Descrip.	(AC006283) unknown protein [Arabidopsis thaliana]		

Seq. No.	53680	Seq. ID	OJ991115_09.0421.C5
Gene No.	112896	Strand	-
Start	1	End	286
Name	OJ991115_09.0421.C5.o1.tc	Method	TBLASTX:Cress
Start	2	End	158
GI	none	Score	207
Exons	2..157, 3..158, 20..157, 21..155		

Seq. No.	53680	Seq. ID	OJ991115_09.0421.C5
Gene No.	112896	Strand	-
Start	1	End	286
Name	OJ991115_09.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	2	End	158
GI	none	Score	71
Exons	2..157, 3..155, 3..158, 20..157		

Seq. No.	53680	Seq. ID	OJ991115_09.0421.C5
Gene No.	112896	Strand	-
Start	1	End	286
Name	OJ991115_09.0421.C5.o1.ts	Method	TBLASTX:Soybean
Start	2	End	158
GI	none	Score	161
Exons	2..157, 18..158		

Seq. No.	53681	Seq. ID	OJ991115_09.0421.C6
Gene No.	112897	Strand	+
Start	1	End	5523
Name	OJ991115_09.0421.C6.o1.np	Method	AAT/NAP
Start	1	End	5523
GI	6498419	Score	744

Exons	1..28, 1782..1964, 2433..2732, 2922..3154, 3256..3390, 5471..5523
GI Descrip.	(AP000815) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F22K18 (AL035356) [Oryza sativa] gi|6721521|dbj|BAA89563.1| (AP001072) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F22K18,putative protein. (AL035356) [Oryza sativa]

Seq. No.	53681	Seq. ID	OJ991115_09.0421.C6
Gene No.	112897	Strand	+
Start	1	End	5523
Name	OJ991115_09.0421.C6.o1.gs	Method	GENSCAN
Start	208	End	3774
GI	none	Score	.7
Exons	208..275, 1039..1234, 1782..1964, 2433..2732, 3256..3774		

Seq. No.	53681	Seq. ID	OJ991115_09.0421.C6
Gene No.	112897	Strand	+
Start	1	End	5523
Name	OJ991115_09.0421.C6.o1.gp	Method	AAT/GAP
Start	1778	End	3096
GI	19884_1.R1084	Score	1142
Exons	1778..1964, 2433..2732, 2922..3096		
GI Descrip.	'4220527/emb|CAA23000| 7.0e-69 (AL035356) putative protein [Arabidopsis thaliana]'		

Seq. No.	53681	Seq. ID	OJ991115_09.0421.C6
Gene No.	112898	Strand	-
Start	3501	End	4079
Name	OJ991115_09.0421.C6.o2.gp	Method	AAT/GAP
Start	3501	End	4079
GI	49741_1.R1084	Score	1083
Exons	3501..4079		
GI Descrip.	'6006355/dbj|AP000559.1|AP000559 4.0e-75 Oryza sativa genomic DNA, chromosome 6, clone:P0493C11'		

Seq. No.	53681	Seq. ID	OJ991115_09.0421.C6
Gene No.	112899	Strand	-
Start	5981	End	6972
Name	OJ991115_09.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	1779	End	3585
GI	none	Score	269
Exons	1779..1964, 1782..1964, 2420..2728, 2433..2729, 2920..3009, 2921..3007, 2921..3025, 2922..3026, 3029..3154, 3034..3150, 3253..3585, 3255..3584		

Seq. No.	53681	Seq. ID	OJ991115_09.0421.C6
Gene No.	112899	Strand	-
Start	5981	End	6972
Name	OJ991115_09.0421.C6.o1.ts	Method	TBLASTX:Soybean
Start	1782	End	3683
GI	none	Score	201
Exons	1782..1973, 1784..1924, 2453..2551, 2457..2555, 2556..2729, 2558..2737, 2917..3012, 2918..3013, 2921..3025, 2922..3026, 3029..3154, 3031..3153, 3074..3157, 3084..3158, 3232..3405, 3237..3395, 3412..3492, 3429..3491, 3612..3683		

Seq. No.	53681	Seq. ID	OJ991115_09.0421.C6
Gene No.	112899	Strand	-
Start	5981	End	6972
Name	OJ991115_09.0421.C6.o2.tw	Method	TBLASTX:Wheat
Start	2420	End	2746
GI	none	Score	110
Exons	2420..2527, 2433..2528, 2434..2532, 2558..2746, 2559..2726		

Seq. No.	53681	Seq. ID	OJ991115_09.0421.C6
Gene No.	112899	Strand	-
Start	5981	End	6972
Name	OJ991115_09.0421.C6.o1.tc	Method	TBLASTX:Cress
Start	2478	End	3026
GI	none	Score	111
Exons	2478..2555, 2480..2554, 2555..2731, 2556..2729, 2922..3026, 2924..3025		

Seq. No.	53681	Seq. ID	OJ991115_09.0421.C6
Gene No.	112899	Strand	-
Start	5981	End	6972
Name	OJ991115_09.0421.C6.o2.tc	Method	TBLASTX:Cress
Start	3031	End	3381
GI	none	Score	155
Exons	3031..3147, 3032..3154, 3068..3154, 3232..3381, 3255..3380		

Seq. No.	53681	Seq. ID	OJ991115_09.0421.C6
Gene No.	112899	Strand	-
Start	5981	End	6972
Name	OJ991115_09.0421.C6.o1.tw	Method	TBLASTX:Wheat
Start	3100	End	3468
GI	none	Score	80
Exons	3100..3150, 3101..3154, 3101..3157, 3232..3468, 3255..3467		

Seq. No.	53681	Seq. ID	OJ991115_09.0421.C6
Gene No.	112899	Strand	-
Start	5981	End	6972
Name	OJ991115_09.0421.C6.o2.tm	Method	TBLASTX:Maize
Start	3591	End	3866
GI	none	Score	128
Exons	3591..3719, 3607..3717, 3611..3721, 3612..3722, 3725..3775, 3726..3776, 3840..3866		

Seq. No.	53681	Seq. ID	OJ991115_09.0421.C6
Gene No.	112899	Strand	-
Start	5981	End	6972
Name	OJ991115_09.0421.C6.o2.gs	Method	GENSCAN
Start	5981	End	6972
GI	none	Score	.54
Exons	5981..6001, 6262..6321, 6895..6972		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112900	Strand	+
Start	174	End	1627
Name	OJ991115_09.0421.C7.o1.gs	Method	GENSCAN
Start	174	End	1596
GI	none	Score	.98
Exons	174..554, 1061..1180, 1282..1596		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112900	Strand	+
Start	174	End	1627
Name	OJ991115_09.0421.C7.o1.np	Method	AAT/NAP
Start	183	End	1627
GI	1619602	Score	424
Exons	183..554, 1061..1180, 1282..1363, 1471..1627		
GI Descrip.	(Y08726) MtN3 [Medicago truncatula]		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112901	Strand	+
Start	2514	End	4414
Name	OJ991115_09.0421.C7.o2.gs	Method	GENSCAN
Start	2514	End	4414
GI	none	Score	.88
Exons	2514..2685, 3807..4414		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112902	Strand	+
Start	9170	End	11232
Name	OJ991115_09.0421.C7.o2.np	Method	AAT/NAP
Start	9170	End	11232
GI	6069646	Score	2329
Exons	9170..9970, 10253..11232		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112903	Strand	+
Start	12136	End	12330
Name	OJ991115_09.0421.C7.o3.np	Method	AAT/NAP
Start	12136	End	12330
GI	7477810	Score	60
Exons	12136..12330		
GI Descrip.	hypothetical protein Rv3876 - Mycobacterium tuberculosis (strain H37RV) gi|2960228|emb|CAA17968.1| (AL022120) hypothetical protein Rv3876 [Mycobacterium tuberculosis]		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112904	Strand	-
Start	11796	End	11817
Name	OJ991115_09.0421.C7.o1.tc	Method	TBLASTX:Cress
Start	171	End	560
GI	none	Score	229
Exons	171..395, 203..394, 483..560, 488..553		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112904	Strand	-
Start	11796	End	11817
Name	OJ991115_09.0421.C7.o1.ts	Method	TBLASTX:Soybean
Start	189	End	1183
GI	none	Score	241
Exons	189..404, 194..334, 483..554, 1060..1182, 1064..1183		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112904	Strand	-
Start	11796	End	11817
Name	OJ991115_09.0421.C7.o5.tm	Method	TBLASTX:Maize
Start	189	End	554
GI	none	Score	257
Exons	189..392, 197..394, 483..554		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112904	Strand	-
Start	11796	End	11817
Name	OJ991115_09.0421.C7.o1.tw	Method	TBLASTX:Wheat
Start	218	End	1164
GI	none	Score	106
Exons	218..295, 221..334, 222..413, 374..553, 474..554, 1063..1164, 1064..1162		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112904	Strand	-
Start	11796	End	11817
Name	OJ991115_09.0421.C7.o6.tm	Method	TBLASTX:Maize
Start	1063	End	1362
GI	none	Score	176
Exons	1063..1182, 1064..1183, 1282..1362, 1282..1362		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112904	Strand	-
Start	11796	End	11817
Name	OJ991115_09.0421.C7.o2.tc	Method	TBLASTX:Cress
Start	1066	End	1353
GI	none	Score	151
Exons	1066..1167, 1067..1183, 1270..1353		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112904	Strand	-
Start	11796	End	11817
Name	OJ991115_09.0421.C7.o4.tm	Method	TBLASTX:Maize
Start	8535	End	8972
GI	none	Score	84
Exons	8535..8654, 8655..8972		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112904	Strand	-
Start	11796	End	11817
Name	OJ991115_09.0421.C7.o2.tm	Method	TBLASTX:Maize
Start	9011	End	9502
GI	none	Score	121
Exons	9011..9145, 9169..9381, 9170..9412, 9407..9502, 9425..9502		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112904	Strand	-
Start	11796	End	11817
Name	OJ991115_09.0421.C7.o4.tw	Method	TBLASTX:Wheat
Start	9428	End	9697
GI	none	Score	186
Exons	9428..9697		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112904	Strand	-
Start	11796	End	11817
Name	OJ991115_09.0421.C7.o1.tm	Method	TBLASTX:Maize
Start	9503	End	10191
GI	none	Score	642
Exons	9503..10189, 9503..10183, 9682..10191		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112904	Strand	-
Start	11796	End	11817
Name	OJ991115_09.0421.C7.o2.tw	Method	TBLASTX:Wheat
Start	9830	End	10270
GI	none	Score	199
Exons	9830..10132, 9913..10089, 10136..10270		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112904	Strand	-
Start	11796	End	11817
Name	OJ991115_09.0421.C7.o3.tm	Method	TBLASTX:Maize
Start	10622	End	11223
GI	none	Score	92
Exons	10622..10747, 10739..10975, 10780..10800, 10876..10989, 10989..11126, 11008..11223		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112904	Strand	-
Start	11796	End	11817
Name	OJ991115_09.0421.C7.o3.tw	Method	TBLASTX:Wheat
Start	10754	End	11106
GI	none	Score	190
Exons	10754..10951, 11071..11106		

Seq. No.	53682	Seq. ID	OJ991115_09.0421.C7
Gene No.	112904	Strand	-
Start	11796	End	11817
Name	OJ991115_09.0421.C7.o4.gs	Method	GENSCAN
Start	11796	End	11817
GI	none	Score	.48
Exons	11796..11817		

Seq. No.	53683	Seq. ID	OJ991115_09.0421.C8
Gene No.	112905	Strand	+
Start	1	End	1641
Name	OJ991115_09.0421.C8.o1.gp	Method	AAT/GAP
Start	1	End	1641
GI	596_2.R1084	Score	1423
Exons	1..30, 582..751, 865..993, 1094..1186, 1291..1641		
GI Descrip.	'548774/sp|P35685|RL7A_ORYSA 1.0e-112 60S RIBOSOMAL PROTEIN L7A >gi_542158_pir__S38360 ribosomal protein L7a - rice >gi_303855_dbj_BAA02156_ (D12631) ribosomal protein L7A [Oryza sativa]'		

Seq. No.	53683	Seq. ID	OJ991115_09.0421.C8
Gene No.	112905	Strand	+
Start	1	End	1641

Name	OJ991115_09.0421.C8.o1.np	Method	AAT/NAP
Start	1	End	1419
GI	548774	Score	804
Exons	1..30, 582..751, 865..993, 1094..1186, 1291..1419		
GI Descrip.	60S RIBOSOMAL PROTEIN L7A gi|542158|pir||S38360 ribosomal protein L7a - rice gi|303855|dbj|BAA02156| (D12631) ribosomal protein L7A [Oryza sativa]		

Seq. No.	53683	Seq. ID	OJ991115_09.0421.C8
Gene No.	112905	Strand	+
Start	1	End	1641
Name	OJ991115_09.0421.C8.o1.gs	Method	GENSCAN
Start	582	End	1422
GI	none	Score	.96
Exons	582..751, 865..993, 1094..1186, 1291..1422		

Seq. No.	53683	Seq. ID	OJ991115_09.0421.C8
Gene No.	112906	Strand	+
Start	2444	End	3014
Name	OJ991115_09.0421.C8.o2.gs	Method	GENSCAN
Start	2444	End	3014
GI	none	Score	.76
Exons	2444..2604, 2676..2922, 2928..3014		

Seq. No.	53683	Seq. ID	OJ991115_09.0421.C8
Gene No.	112907	Strand	-
Start	2536	End	3052
Name	OJ991115_09.0421.C8.o1.tm	Method	TBLASTX:Maize
Start	2	End	1636
GI	none	Score	68
Exons	2..34, 580..750, 581..751, 588..758, 682..771, 844..993, 861..992, 862..996, 1077..1133, 1092..1211, 1094..1186, 1290..1424, 1291..1431, 1515..1550, 1550..1636, 1551..1589		

Seq. No.	53683	Seq. ID	OJ991115_09.0421.C8
Gene No.	112907	Strand	-
Start	2536	End	3052
Name	OJ991115_09.0421.C8.o1.ts	Method	TBLASTX:Soybean
Start	580	End	1433
GI	none	Score	200
Exons	580..771, 581..751, 677..778, 688..771, 844..993, 861..983, 862..996, 1093..1191, 1094..1186, 1290..1433, 1291..1425		

Seq. No.	53683	Seq. ID	OJ991115_09.0421.C8
Gene No.	112907	Strand	-
Start	2536	End	3052
Name	OJ991115_09.0421.C8.o1.tc	Method	TBLASTX:Cress
Start	581	End	1422
GI	none	Score	188
Exons	581..751, 585..758, 694..759, 844..993, 857..994, 857..1006, 862..996, 1077..1202, 1094..1186, 1290..1415, 1291..1422		

Seq. No.	53683	Seq. ID	OJ991115_09.0421.C8
Gene No.	112907	Strand	-
Start	2536	End	3052
Name	OJ991115_09.0421.C8.o1.tw	Method	TBLASTX:Wheat
Start	630	End	1186

GI	none	Score	142
Exons	630..749, 668..751, 674..751, 676..771, 855..992, 857..994, 857..991, 862..996, 862..993, 1093..1185, 1094..1186		

Seq. No.	53683	Seq. ID	OJ991115_09.0421.C8
Gene No.	112907	Strand	-
Start	2536	End	3052
Name	OJ991115_09.0421.C8.o2.np	Method	AAT/NAP
Start	2536	End	3052
GI	7438344	Score	102
Exons	2536..2702, 2800..3052		
GI Descrip.	myb-related protein 1 - rice gi|2605617|dbj|BAA23337.1| (D88617) OSMYB1 [Oryza sativa]		

Seq. No.	53684	Seq. ID	OJ991115_09.0421.C9
Gene No.	112908	Strand	+
Start	273	End	7065
Name	OJ991115_09.0421.C9.o1.gs	Method	GENSCAN
Start	273	End	7065
GI	none	Score	.67
Exons	273..481, 2102..2288, 2366..2473, 2891..3018, 3236..3288, 4751..5039, 5093..5213, 5805..5887, 6210..6401, 6496..7065		

Seq. No.	53684	Seq. ID	OJ991115_09.0421.C9
Gene No.	112908	Strand	+
Start	273	End	7065
Name	OJ991115_09.0421.C9.o1.gp	Method	AAT/GAP
Start	2181	End	3156
GI	4714238	Score	811
Exons	2181..2288, 2366..2473, 2891..3156		

Seq. No.	53684	Seq. ID	OJ991115_09.0421.C9
Gene No.	112908	Strand	+
Start	273	End	7065
Name	OJ991115_09.0421.C9.o1.np	Method	AAT/NAP
Start	4815	End	7059
GI	4138647	Score	827
Exons	4815..5039, 6210..6401, 6496..7059		
GI Descrip.	(AJ011939) peroxidase [Trifolium repens]		

Seq. No.	53684	Seq. ID	OJ991115_09.0421.C9
Gene No.	112909	Strand	-
Start	6719	End	7164
Name	OJ991115_09.0421.C9.o2.gp	Method	AAT/GAP
Start	6719	End	7164
GI	86128_1.R1084	Score	840
Exons	6719..7164		
GI Descrip.	'1402906/emb|CAA66958| 4.0e-26 (X98314) peroxidase [Arabidopsis thaliana] >gi_4468977_emb_CAB38291_ (AL035605) peroxidase, prxr2 [Arabidopsis thaliana]'		

Seq. No.	53684	Seq. ID	OJ991115_09.0421.C9
Gene No.	112910	Strand	-
Start	8403	End	10610
Name	OJ991115_09.0421.C9.o2.tc	Method	TBLASTX:Cress
Start	1659	End	3009
GI	none	Score	207

Exons	1659..1841, 1715..1843, 1718..1843, 2102..2287, 2110..2217, 2123..2293, 2358..2471, 2365..2472, 2890..2934, 2950..3009		
Seq. No.	53684	Seq. ID	OJ991115_09.0421.C9
Gene No.	112910	Strand	-
Start	8403	End	10610
Name	OJ991115_09.0421.C9.o2.tm	Method	TBLASTX:Maize
Start	1665	End	3061
GI	none	Score	270
Exons	1665..1841, 1667..1846, 1677..1844, 1718..1846, 2101..2286, 2101..2220, 2102..2287, 2102..2293, 2361..2480, 2365..2472, 2890..3030, 2893..3024, 2894..3061		
Seq. No.	53684	Seq. ID	OJ991115_09.0421.C9
Gene No.	112910	Strand	-
Start	8403	End	10610
Name	OJ991115_09.0421.C9.o2.ts	Method	TBLASTX:Soybean
Start	1692	End	3024
GI	none	Score	212
Exons	1692..1841, 1718..1846, 2101..2286, 2102..2287, 2120..2302, 2142..2354, 2358..2471, 2365..2472, 2369..2473, 2890..3024, 2890..3024		
Seq. No.	53684	Seq. ID	OJ991115_09.0421.C9
Gene No.	112910	Strand	-
Start	8403	End	10610
Name	OJ991115_09.0421.C9.o1.tc	Method	TBLASTX:Cress
Start	4899	End	7065
GI	none	Score	115
Exons	4899..5039, 4901..5038, 6197..6403, 6201..6413, 6501..6701, 6502..6714, 6733..6783, 6790..7065, 6888..7061		
Seq. No.	53684	Seq. ID	OJ991115_09.0421.C9
Gene No.	112910	Strand	-
Start	8403	End	10610
Name	OJ991115_09.0421.C9.o1.ts	Method	TBLASTX:Soybean
Start	4899	End	7053
GI	none	Score	139
Exons	4899..5039, 4925..5035, 6197..6244, 6201..6251, 6225..6332, 6245..6331, 6336..6413, 6495..6701, 6496..6714, 6733..7053, 6756..6845, 6888..7049		
Seq. No.	53684	Seq. ID	OJ991115_09.0421.C9
Gene No.	112910	Strand	-
Start	8403	End	10610
Name	OJ991115_09.0421.C9.o1.tm	Method	TBLASTX:Maize
Start	4901	End	6669
GI	none	Score	146
Exons	4901..5038, 4902..5039, 6197..6400, 6201..6413, 6478..6669, 6495..6668		
Seq. No.	53684	Seq. ID	OJ991115_09.0421.C9
Gene No.	112910	Strand	-
Start	8403	End	10610
Name	OJ991115_09.0421.C9.o1.tw	Method	TBLASTX:Wheat
Start	4902	End	6717
GI	none	Score	103

Exons	4902..5039, 4904..5038, 6201..6239, 6242..6397, 6243..6413, 6496..6717, 6501..6689		
Seq. No.	53684	Seq. ID	OJ991115_09.0421.C9
Gene No.	112910	Strand	-
Start	8403	End	10610
Name	OJ991115_09.0421.C9.o3.tm	Method	TBLASTX:Maize
Start	6804	End	7065
GI	none	Score	383
Exons	6804..6845, 6805..7065, 6885..7061		
Seq. No.	53684	Seq. ID	OJ991115_09.0421.C9
Gene No.	112910	Strand	-
Start	8403	End	10610
Name	OJ991115_09.0421.C9.o4.tm	Method	TBLASTX:Maize
Start	8385	End	10175
GI	none	Score	242
Exons	8385..8402, 8517..8561, 8640..8669, 9942..10175, 9965..10174		
Seq. No.	53684	Seq. ID	OJ991115_09.0421.C9
Gene No.	112910	Strand	-
Start	8403	End	10610
Name	OJ991115_09.0421.C9.o3.gp	Method	AAT/GAP
Start	8403	End	10145
GI	none	Score	923
Exons	8403..8669, 9922..10145		
Seq. No.	53684	Seq. ID	OJ991115_09.0421.C9
Gene No.	112910	Strand	-
Start	8403	End	10610
Name	OJ991115_09.0421.C9.o2.np	Method	AAT/NAP
Start	9493	End	10610
GI	3935165	Score	153
Exons	9493..9523, 9935..10141, 10422..10610		
GI Descrip.	(AC004557) F17L21.8 [Arabidopsis thaliana]		
Seq. No.	53684	Seq. ID	OJ991115_09.0421.C9
Gene No.	112910	Strand	-
Start	8403	End	10610
Name	OJ991115_09.0421.C9.o3.tc	Method	TBLASTX:Cress
Start	9915	End	10243
GI	none	Score	146
Exons	9915..10130, 9965..10141, 10184..10243		
Seq. No.	53684	Seq. ID	OJ991115_09.0421.C9
Gene No.	112910	Strand	-
Start	8403	End	10610
Name	OJ991115_09.0421.C9.o3.ts	Method	TBLASTX:Soybean
Start	9935	End	10246
GI	none	Score	121
Exons	9935..10144, 9963..10133, 10190..10246		
Seq. No.	53685	Seq. ID	OJ991115_09.0421.C10
Gene No.	112911	Strand	+
Start	2289	End	4723
Name	OJ991115_09.0421.C10.o1.gs	Method	GENSCAN
Start	2289	End	4723

GI	none	Score	.58
Exons	2289..2334, 3221..3429, 4247..4723		

Seq. No.	53685	Seq. ID	OJ991115_09.0421.C10
Gene No.	112912	Strand	-
Start	5371	End	5930
Name	OJ991115_09.0421.C10.o1.np	Method	AAT/NAP
Start	5355	End	5930
GI	4049408	Score	464
Exons	5355..5930		
GI Descrip.	(Y10224) L-ascorbate oxidase [Cucumis melo]		

Seq. No.	53685	Seq. ID	OJ991115_09.0421.C10
Gene No.	112912	Strand	-
Start	5371	End	5930
Name	OJ991115_09.0421.C10.o2.gs	Method	GENSCAN
Start	5371	End	5882
GI	none	Score	.96
Exons	5371..5882		

Seq. No.	53685	Seq. ID	OJ991115_09.0421.C10
Gene No.	112912	Strand	-
Start	5371	End	5930
Name	OJ991115_09.0421.C10.o1.tm	Method	TBLASTX:Maize
Start	5376	End	5703
GI	none	Score	47
Exons	5376..5498, 5377..5580, 5384..5422, 5477..5572, 5605..5703, 5624..5701		

Seq. No.	53685	Seq. ID	OJ991115_09.0421.C10
Gene No.	112912	Strand	-
Start	5371	End	5930
Name	OJ991115_09.0421.C10.o1.tc	Method	TBLASTX:Cress
Start	5386	End	5927
GI	none	Score	65
Exons	5386..5577, 5492..5572, 5620..5676, 5621..5677, 5835..5927		

Seq. No.	53685	Seq. ID	OJ991115_09.0421.C10
Gene No.	112912	Strand	-
Start	5371	End	5930
Name	OJ991115_09.0421.C10.o1.ts	Method	TBLASTX:Soybean
Start	5389	End	5927
GI	none	Score	104
Exons	5389..5583, 5477..5572, 5621..5704, 5629..5703, 5731..5790, 5835..5927		

Seq. No.	53686	Seq. ID	OJ991115_09.0421.C11
Gene No.	112913	Strand	-
Start	1	End	1418
Name	OJ991115_09.0421.C11.o1.np	Method	AAT/NAP
Start	1	End	1418
GI	7432985	Score	892
Exons	1..617, 929..1021, 1125..1418		
GI Descrip.	L-ascorbate oxidase (EC 1.10.3.3) - Arabidopsis thaliana gi|3080452|emb|CAA18769.1| (AL022605) putative L-ascorbate oxidase [Arabidopsis thaliana] gi|7271038|emb|CAB80646.1| (AL161596) putative L-ascorbate oxidase [Arabidopsis thaliana]		

Seq. No.	53686	Seq. ID	OJ991115_09.0421.C11
Gene No.	112913	Strand	-
Start	1	End	1418
Name	OJ991115_09.0421.C11.o1.gs	Method	GENSCAN
Start	16	End	1388
GI	none	Score	.64
Exons	16..617, 929..1021, 1053..1388		

Seq. No.	53686	Seq. ID	OJ991115_09.0421.C11
Gene No.	112914	Strand	-
Start	4070	End	10933
Name	OJ991115_09.0421.C11.o1.tw	Method	TBLASTX:Wheat
Start	7	End	267
GI	none	Score	240
Exons	7..267, 9..263		

Seq. No.	53686	Seq. ID	OJ991115_09.0421.C11
Gene No.	112914	Strand	-
Start	4070	End	10933
Name	OJ991115_09.0421.C11.o3.ts	Method	TBLASTX:Soybean
Start	12	End	302
GI	none	Score	114
Exons	12..302, 76..252		

Seq. No.	53686	Seq. ID	OJ991115_09.0421.C11
Gene No.	112914	Strand	-
Start	4070	End	10933
Name	OJ991115_09.0421.C11.o4.tm	Method	TBLASTX:Maize
Start	36	End	189
GI	none	Score	117
Exons	36..185, 36..188, 49..189		

Seq. No.	53686	Seq. ID	OJ991115_09.0421.C11
Gene No.	112914	Strand	-
Start	4070	End	10933
Name	OJ991115_09.0421.C11.o3.tc	Method	TBLASTX:Cress
Start	180	End	578
GI	none	Score	120
Exons	180..266, 367..573, 372..578		

Seq. No.	53686	Seq. ID	OJ991115_09.0421.C11
Gene No.	112914	Strand	-
Start	4070	End	10933
Name	OJ991115_09.0421.C11.o1.ts	Method	TBLASTX:Soybean
Start	534	End	1319
GI	none	Score	83
Exons	534..620, 547..618, 917..1024, 951..1025, 1122..1319, 1132..1305		

Seq. No.	53686	Seq. ID	OJ991115_09.0421.C11
Gene No.	112914	Strand	-
Start	4070	End	10933
Name	OJ991115_09.0421.C11.o1.tc	Method	TBLASTX:Cress
Start	899	End	1301
GI	none	Score	93
Exons	899..1024, 951..1019, 1125..1301, 1129..1290		

Seq. No.	53686	Seq. ID	OJ991115_09.0421.C11
Gene No.	112914	Strand	-
Start	4070	End	10933
Name	OJ991115_09.0421.C11.o1.tm	Method	TBLASTX:Maize
Start	929	End	1319
GI	none	Score	82
Exons	929..1024, 954..1025, 1122..1319, 1123..1290		

Seq. No.	53686	Seq. ID	OJ991115_09.0421.C11
Gene No.	112914	Strand	-
Start	4070	End	10933
Name	OJ991115_09.0421.C11.o2.gs	Method	GENSCAN
Start	4070	End	10825
GI	none	Score	.74
Exons	4070..4244, 5456..5625, 6315..6356, 6564..6663, 7241..7311, 7956..8034, 9826..9855, 10436..10531, 10641..10825		

Seq. No.	53686	Seq. ID	OJ991115_09.0421.C11
Gene No.	112914	Strand	-
Start	4070	End	10933
Name	OJ991115_09.0421.C11.o1.gp	Method	AAT/GAP
Start	4417	End	10933
GI	368_2.R1084	Score	2233
Exons	4417..4438, 4550..4966, 5456..5619, 6315..6356, 6451..6492, 6564..6663, 7241..7311, 7956..8034, 10641..10933		
GI Descrip.	'3928085 8.0e-17 (AC005770) unknown protein [Arabidopsis thaliana]'		

Seq. No.	53686	Seq. ID	OJ991115_09.0421.C11
Gene No.	112914	Strand	-
Start	4070	End	10933
Name	OJ991115_09.0421.C11.o2.np	Method	AAT/NAP
Start	4906	End	10825
GI	7446544	Score	1079
Exons	4906..4966, 5456..5619, 6315..6356, 6451..6492, 6564..6663, 7241..7311, 7956..8034, 10641..10825		
GI Descrip.	MADS box protein - rice gi|2286113|gb|AAC49817.1| (U78892) MADS box protein [Oryza sativa]		

Seq. No.	53686	Seq. ID	OJ991115_09.0421.C11
Gene No.	112914	Strand	-
Start	4070	End	10933
Name	OJ991115_09.0421.C11.o3.tm	Method	TBLASTX:Maize
Start	5452	End	7314
GI	none	Score	62
Exons	5452..5514, 5456..5503, 5497..5532, 5504..5530, 5540..5620, 5541..5615, 5542..5616, 6304..6357, 6312..6359, 6317..6367, 6424..6492, 6432..6491, 6435..6494, 6445..6495, 6564..6665, 6565..6666, 6566..6664, 7197..7313, 7238..7312, 7240..7314		

Seq. No.	53686	Seq. ID	OJ991115_09.0421.C11
Gene No.	112914	Strand	-
Start	4070	End	10933
Name	OJ991115_09.0421.C11.o2.tc	Method	TBLASTX:Cress
Start	6332	End	10804
GI	none	Score	165
Exons	6332..6358, 6445..6498, 6564..6665, 7240..7308, 10634..10804,		

10650..10775

Seq. No.	53686	Seq. ID	OJ991115_09.0421.C11
Gene No.	112914	Strand	-
Start	4070	End	10933
Name	OJ991115_09.0421.C11.o2.ts	Method	TBLASTX:Soybean
Start	6564	End	10804
GI	none	Score	175
Exons	6564..6665, 7240..7305, 7914..8036, 10641..10772, 10646..10804		

Seq. No.	53686	Seq. ID	OJ991115_09.0421.C11
Gene No.	112914	Strand	-
Start	4070	End	10933
Name	OJ991115_09.0421.C11.o2.tw	Method	TBLASTX:Wheat
Start	6587	End	10804
GI	none	Score	68
Exons	6587..6664, 6588..6665, 7238..7300, 7240..7308, 7284..7310, 7956..8042, 7957..8043, 10635..10772, 10643..10804		

Seq. No.	53686	Seq. ID	OJ991115_09.0421.C11
Gene No.	112914	Strand	-
Start	4070	End	10933
Name	OJ991115_09.0421.C11.o2.tm	Method	TBLASTX:Maize
Start	7959	End	10804
GI	none	Score	101
Exons	7959..8036, 7960..8037, 7960..8037, 10635..10772, 10643..10804		

Seq. No.	53687	Seq. ID	OJ991115_09.0421.C12
Gene No.	112915	Strand	-
Start	1	End	6831
Name	OJ991115_09.0421.C12.o1.np	Method	AAT/NAP
Start	1	End	6831
GI	6642682	Score	282
Exons	1..23, 3903..4003, 6647..6831		
GI Descrip.	(AC015450) unknown protein [Arabidopsis thaliana]		

Seq. No.	53687	Seq. ID	OJ991115_09.0421.C12
Gene No.	112915	Strand	-
Start	1	End	6831
Name	OJ991115_09.0421.C12.o2.gs	Method	GENSCAN
Start	2354	End	3229
GI	none	Score	.68
Exons	2354..2883, 2928..2985, 2999..3229		

Seq. No.	53687	Seq. ID	OJ991115_09.0421.C12
Gene No.	112916	Strand	-
Start	17053	End	19741
Name	OJ991115_09.0421.C12.o1.ts	Method	TBLASTX:Soybean
Start	3919	End	6789
GI	none	Score	77
Exons	3919..4005, 3920..4006, 6646..6789, 6647..6724		

Seq. No.	53687	Seq. ID	OJ991115_09.0421.C12
Gene No.	112916	Strand	-
Start	17053	End	19741
Name	OJ991115_09.0421.C12.o2.tm	Method	TBLASTX:Maize
Start	3937	End	6787

GI	none	Score	83
Exons	3937..4005, 6646..6786, 6650..6787		

Seq. No.	53687	Seq. ID	OJ991115_09.0421.C12
Gene No.	112916	Strand	-
Start	17053	End	19741
Name	OJ991115_09.0421.C12.o4.gs	Method	GENSCAN
Start	17053	End	19442
GI	none	Score	.69
Exons	17053..17103, 17599..17966, 18146..18182, 18680..18738, 18824..19202, 19316..19442		

Seq. No.	53687	Seq. ID	OJ991115_09.0421.C12
Gene No.	112916	Strand	-
Start	17053	End	19741
Name	OJ991115_09.0421.C12.o2.np	Method	AAT/NAP
Start	17578	End	19741
GI	7485456	Score	425
Exons	17578..18014, 18805..19202, 19316..19442, 19678..19741		
GI Descrip.	hypothetical protein F13M23.40 - Arabidopsis thaliana gi|4455233|emb|CAB36732.1| (AL035523) hypothetical protein [Arabidopsis thaliana] gi|7269340|emb|CAB79399.1| (AL161562) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53687	Seq. ID	OJ991115_09.0421.C12
Gene No.	112916	Strand	-
Start	17053	End	19741
Name	OJ991115_09.0421.C12.o1.tm	Method	TBLASTX:Maize
Start	17599	End	17968
GI	none	Score	60
Exons	17599..17670, 17599..17652, 17640..17711, 17646..17717, 17710..17862, 17710..17868, 17865..17960, 17874..17966, 17887..17967, 17924..17968		

Seq. No.	53688	Seq. ID	OJ991115_09.0421.C13
Gene No.	112917	Strand	-
Start	1156	End	9799
Name	OJ991115_09.0421.C13.o1.gs	Method	GENSCAN
Start	1156	End	9799
GI	none	Score	.55
Exons	1156..1250, 1539..1686, 2088..2210, 2268..2429, 2446..2478, 2513..2682, 2809..2832, 3541..3691, 4340..4464, 4769..4811, 4965..5072, 5167..5295, 5453..5494, 5567..5636, 6223..6346, 6462..6554, 6638..6706, 8405..8550, 9351..9799		

Seq. No.	53688	Seq. ID	OJ991115_09.0421.C13
Gene No.	112917	Strand	-
Start	1156	End	9799
Name	OJ991115_09.0421.C13.o1.np	Method	AAT/NAP
Start	2099	End	9711
GI	2760319	Score	1097
Exons	2099..2149, 2268..2411, 2555..2682, 2901..3025, 3541..3691, 3960..4036, 4327..4544, 4957..5072, 5167..5295, 5453..5494, 5567..5636, 6223..6346, 6462..6554, 6638..6706, 6799..6895, 9658..9711		
GI Descrip.	(AC002130) F1N21.3 [Arabidopsis thaliana]		

Seq. No.	53688	Seq. ID	OJ991115_09.0421.C13
Gene No.	112917	Strand	-
Start	1156	End	9799
Name	OJ991115_09.0421.C13.o1.ts	Method	TBLASTX:Soybean
Start	6642	End	9732
GI	none	Score	68
Exons	6642..6707, 6643..6708, 6800..6895, 6801..6896, 9653..9724, 9670..9732		

Seq. No.	53689	Seq. ID	OJ991115_09.0421.C14
Gene No.	112918	Strand	-
Start	938	End	4483
Name	OJ991115_09.0421.C14.o1.np	Method	AAT/NAP
Start	938	End	4483
GI	6069646	Score	292
Exons	938..1597, 4443..4483		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	53689	Seq. ID	OJ991115_09.0421.C14
Gene No.	112918	Strand	-
Start	938	End	4483
Name	OJ991115_09.0421.C14.o1.tw	Method	TBLASTX:Wheat
Start	968	End	1356
GI	none	Score	124
Exons	968..1168, 1240..1356		

Seq. No.	53689	Seq. ID	OJ991115_09.0421.C14
Gene No.	112918	Strand	-
Start	938	End	4483
Name	OJ991115_09.0421.C14.o2.tm	Method	TBLASTX:Maize
Start	1046	End	1581
GI	none	Score	69
Exons	1046..1171, 1240..1401, 1265..1402, 1417..1581		

Seq. No.	53689	Seq. ID	OJ991115_09.0421.C14
Gene No.	112918	Strand	-
Start	938	End	4483
Name	OJ991115_09.0421.C14.o2.np	Method	AAT/NAP
Start	2265	End	3769
GI	5803254	Score	897
Exons	2265..2639, 2727..2882, 2975..3457, 3485..3769		
GI Descrip.	(AP000399) ESTs C97429(C60159),D22427(C11106), AU078031(E31854),D15683(C1084) correspond to a region of the predicted gene; hypothetical protein [Oryza sativa]		

Seq. No.	53689	Seq. ID	OJ991115_09.0421.C14
Gene No.	112918	Strand	-
Start	938	End	4483
Name	OJ991115_09.0421.C14.o3.tm	Method	TBLASTX:Maize
Start	2271	End	2561
GI	none	Score	84
Exons	2271..2426, 2274..2351, 2434..2559, 2436..2561		

Seq. No.	53689	Seq. ID	OJ991115_09.0421.C14
Gene No.	112918	Strand	-
Start	938	End	4483
Name	OJ991115_09.0421.C14.o1.tm	Method	TBLASTX:Maize
Start	2566	End	3352
GI	none	Score	54
Exons	2566..2592, 2721..2882, 2721..2891, 2973..3050, 2984..3049, 2998..3063, 2999..3055, 3125..3238, 3132..3350, 3134..3352		

Seq. No.	53690	Seq. ID	OJ991115_09.0421.C15
Gene No.	112919	Strand	+
Start	419	End	3640
Name	OJ991115_09.0421.C15.o1.gs	Method	GENSCAN
Start	419	End	3640
GI	none	Score	.8
Exons	419..535, 3244..3448, 3626..3640		

Seq. No.	53690	Seq. ID	OJ991115_09.0421.C15
Gene No.	112920	Strand	+
Start	13045	End	13822
Name	OJ991115_09.0421.C15.o3.np	Method	AAT/NAP
Start	13045	End	13822
GI	6907086	Score	362
Exons	13045..13822		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	53690	Seq. ID	OJ991115_09.0421.C15
Gene No.	112921	Strand	-
Start	8677	End	10371
Name	OJ991115_09.0421.C15.o1.np	Method	AAT/NAP
Start	8677	End	10371
GI	6907086	Score	1103
Exons	8677..9084, 9311..9538, 9599..10371		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	53690	Seq. ID	OJ991115_09.0421.C15
Gene No.	112921	Strand	-
Start	8677	End	10371
Name	OJ991115_09.0421.C15.o3.gs	Method	GENSCAN
Start	9624	End	10188
GI	none	Score	.94
Exons	9624..10051, 10077..10188		

Seq. No.	53690	Seq. ID	OJ991115_09.0421.C15
Gene No.	112922	Strand	-
Start	11078	End	13822
Name	OJ991115_09.0421.C15.o2.np	Method	AAT/NAP
Start	11078	End	13822
GI	4680186	Score	164
Exons	11078..11502, 13767..13822		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	53690	Seq. ID	OJ991115_09.0421.C15
Gene No.	112922	Strand	-
Start	11078	End	13822
Name	OJ991115_09.0421.C15.o4.gs	Method	GENSCAN
Start	12667	End	13758

GI	none	Score	.56
Exons	12667..12791, 13326..13758		

Seq. No.	53691	Seq. ID	OJ991115_09.0421.C16
Gene No.	112923	Strand	+
Start	81	End	527
Name	OJ991115_09.0421.C16.o1.gs	Method	GENSCAN
Start	81	End	527
GI	none	Score	.85
Exons	81..527		

Seq. No.	53691	Seq. ID	OJ991115_09.0421.C16
Gene No.	112924	Strand	-
Start	1631	End	4563
Name	OJ991115_09.0421.C16.o1.np	Method	AAT/NAP
Start	1626	End	2293
GI	5091506	Score	684
Exons	1626..2293		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	53691	Seq. ID	OJ991115_09.0421.C16
Gene No.	112924	Strand	-
Start	1631	End	4563
Name	OJ991115_09.0421.C16.o2.gs	Method	GENSCAN
Start	1631	End	4041
GI	none	Score	.46
Exons	1631..2026, 2074..2165, 3288..3507, 3838..3893, 3987..4041		

Seq. No.	53691	Seq. ID	OJ991115_09.0421.C16
Gene No.	112924	Strand	-
Start	1631	End	4563
Name	OJ991115_09.0421.C16.o2.np	Method	AAT/NAP
Start	3133	End	4563
GI	5803254	Score	728
Exons	3133..3507, 3592..3738, 3838..4563		
GI Descrip.	(AP000399) ESTs C97429(C60159),D22427(C11106), AU078031(E31854),D15683(C1084) correspond to a region of the predicted gene; hypothetical protein [Oryza sativa]		

Seq. No.	53691	Seq. ID	OJ991115_09.0421.C16
Gene No.	112924	Strand	-
Start	1631	End	4563
Name	OJ991115_09.0421.C16.o1.tm	Method	TBLASTX:Maize
Start	3587	End	4225
GI	none	Score	88
Exons	3587..3664, 3589..3669, 3603..3665, 3604..3669, 3673..3774, 3682..3738, 3859..3915, 3861..3926, 3992..4225, 4000..4218		

Seq. No.	53692	Seq. ID	OJ991115_09.0421.C17
Gene No.	112925	Strand	+
Start	8261	End	8570
Name	OJ991115_09.0421.C17.o4.gs	Method	GENSCAN
Start	8261	End	8570
GI	none	Score	.72
Exons	8261..8449, 8484..8570		

Seq. No.	53692	Seq. ID	OJ991115_09.0421.C17

Gene No.	112926	Strand	-
Start	1566	End	2736
Name	OJ991115_09.0421.C17.o2.gs	Method	GENSCAN
Start	1566	End	2736
GI	none	Score	.74
Exons	1566..1982, 2230..2337, 2403..2443, 2682..2736		

Seq. No.	53692	Seq. ID	OJ991115_09.0421.C17
Gene No.	112927	Strand	-
Start	3540	End	7335
Name	OJ991115_09.0421.C17.o3.gs	Method	GENSCAN
Start	3540	End	7335
GI	none	Score	.78
Exons	3540..3923, 4394..4486, 4880..5031, 6437..6612, 7217..7335		

Seq. No.	53692	Seq. ID	OJ991115_09.0421.C17
Gene No.	112927	Strand	-
Start	3540	End	7335
Name	OJ991115_09.0421.C17.o1.np	Method	AAT/NAP
Start	3549	End	5038
GI	5803254	Score	814
Exons	3549..3923, 4008..4175, 4271..5038		
GI Descrip.	(AP000399) ESTs C97429(C60159),D22427(C11106), AU078031(E31854),D15683(C1084) correspond to a region of the predicted gene; hypothetical protein [Oryza sativa]		

Seq. No.	53692	Seq. ID	OJ991115_09.0421.C17
Gene No.	112928	Strand	-
Start	9888	End	10087
Name	OJ991115_09.0421.C17.o2.tm	Method	TBLASTX:Maize
Start	3536	End	3848
GI	none	Score	80
Exons	3536..3628, 3555..3644, 3559..3636, 3561..3659, 3562..3663, 3718..3840, 3723..3848, 3735..3848		

Seq. No.	53692	Seq. ID	OJ991115_09.0421.C17
Gene No.	112928	Strand	-
Start	9888	End	10087
Name	OJ991115_09.0421.C17.o1.tm	Method	TBLASTX:Maize
Start	3853	End	4637
GI	none	Score	38
Exons	3853..3876, 4002..4076, 4003..4059, 4104..4160, 4104..4184, 4271..4453, 4279..4326, 4407..4448, 4457..4630, 4473..4637		

Seq. No.	53692	Seq. ID	OJ991115_09.0421.C17
Gene No.	112928	Strand	-
Start	9888	End	10087
Name	OJ991115_09.0421.C17.o5.gs	Method	GENSCAN
Start	9888	End	10087
GI	none	Score	.97
Exons	9888..10001, 10016..10087		

Seq. No.	53693	Seq. ID	OJ991115_09.0421.C18
Gene No.	112929	Strand	+
Start	1	End	3898
Name	OJ991115_09.0421.C18.o1.np	Method	AAT/NAP
Start	1	End	3892

GI	7485455	Score	1620
Exons	1..49, 1021..1160, 1272..1364, 1516..1640, 2002..2134, 2330..2535, 2635..2760, 3280..3892		
GI Descrip.	hypothetical protein F13M23.30 - Arabidopsis thaliana gi|4455232|emb|CAB36731.1| (AL035523) putative protein [Arabidopsis thaliana] gi|7269339|emb|CAB79398.1| (AL161562) putative protein [Arabidopsis thaliana]		

Seq. No.	53693	Seq. ID	OJ991115_09.0421.C18
Gene No.	112929	Strand	+
Start	1	End	3898
Name	OJ991115_09.0421.C18.o1.gs	Method	GENSCAN
Start	716	End	3898
GI	none	Score	.87
Exons	716..813, 891..957, 1041..1160, 1272..1364, 1516..1713, 2330..2535, 2635..2760, 3280..3898		

Seq. No.	53693	Seq. ID	OJ991115_09.0421.C18
Gene No.	112930	Strand	-
Start	4507	End	6296
Name	OJ991115_09.0421.C18.o1.tm	Method	TBLASTX:Maize
Start	661	End	5517
GI	none	Score	117
Exons	661..768, 675..770, 889..912, 931..957, 1038..1160, 1040..1153, 1271..1354, 1272..1367, 1515..1577, 1516..1578, 1599..1646, 1600..1647, 1836..1922, 1837..1920, 2002..2133, 2003..2140, 2325..2525, 2327..2530, 2365..2535, 2632..2772, 2633..2761, 3276..3410, 3278..3418, 3280..3432, 3281..3865, 3481..3579, 3673..3882, 4501..4701, 4552..4659, 4717..4785, 4843..4938, 4862..4936, 4942..5181, 4943..5182, 5182..5517, 5273..5500		

Seq. No.	53693	Seq. ID	OJ991115_09.0421.C18
Gene No.	112930	Strand	-
Start	4507	End	6296
Name	OJ991115_09.0421.C18.o1.ts	Method	TBLASTX:Soybean
Start	664	End	5517
GI	none	Score	115
Exons	664..780, 672..779, 931..957, 1064..1159, 1065..1160, 1076..1156, 1271..1363, 1272..1367, 1515..1646, 1516..1647, 1836..1925, 1837..1914, 1841..1927, 1995..2135, 1999..2136, 1999..2133, 2000..2140, 2003..2134, 2327..2533, 2341..2535, 2368..2535, 2632..2772, 2633..2773, 3280..3435, 3281..3865, 3481..3579, 3685..3882, 4498..4701, 4717..4785, 4843..4941, 4850..4942, 4942..5181, 4946..5182, 5182..5517, 5273..5500		

Seq. No.	53693	Seq. ID	OJ991115_09.0421.C18
Gene No.	112930	Strand	-
Start	4507	End	6296
Name	OJ991115_09.0421.C18.o1.tw	Method	TBLASTX:Wheat
Start	3721	End	4671
GI	none	Score	191
Exons	3721..3903, 3722..3865, 4504..4671, 4552..4656		

Seq. No.	53693	Seq. ID	OJ991115_09.0421.C18
Gene No.	112930	Strand	-
Start	4507	End	6296
Name	OJ991115_09.0421.C18.o2.gs	Method	GENSCAN

Start	4507	End	6164
GI	none	Score	1
Exons	4507..5493, 6156..6164		

Seq. No.	53693	Seq. ID	OJ991115_09.0421.C18
Gene No.	112930	Strand	-
Start	4507	End	6296
Name	OJ991115_09.0421.C18.o2.np	Method	AAT/NAP
Start	4510	End	6296
GI	7485455	Score	1002
Exons	4510..4801, 4838..5493, 6156..6296		
GI Descrip.	hypothetical protein F13M23.30 - Arabidopsis thaliana gi|4455232|emb|CAB36731.1| (AL035523) putative protein [Arabidopsis thaliana] gi|7269339|emb|CAB79398.1| (AL161562) putative protein [Arabidopsis thaliana]		

Seq. No.	53694	Seq. ID	OJ990605_39.0420.C1
Gene No.	112931	Strand	-
Start	317	End	858
Name	OJ990605_39.0420.C1.o1.gs	Method	GENSCAN
Start	317	End	858
GI	none	Score	.75
Exons	317..424, 778..858		

Seq. No.	53695	Seq. ID	OJ990605_39.0420.C2
Gene No.	112932	Strand	-
Start	2729	End	3692
Name	OJ990605_39.0420.C2.o1.np	Method	AAT/NAP
Start	2729	End	3692
GI	3928085	Score	264
Exons	2729..3036, 3657..3692		
GI Descrip.	(AC005770) unknown protein [Arabidopsis thaliana]		

Seq. No.	53695	Seq. ID	OJ990605_39.0420.C2
Gene No.	112932	Strand	-
Start	2729	End	3692
Name	OJ990605_39.0420.C2.o1.tm	Method	TBLASTX:Maize
Start	2747	End	3035
GI	none	Score	361
Exons	2747..3034, 2760..3035		

Seq. No.	53695	Seq. ID	OJ990605_39.0420.C2
Gene No.	112932	Strand	-
Start	2729	End	3692
Name	OJ990605_39.0420.C2.o1.tc	Method	TBLASTX:Cress
Start	2765	End	2938
GI	none	Score	202
Exons	2765..2938		

Seq. No.	53695	Seq. ID	OJ990605_39.0420.C2
Gene No.	112932	Strand	-
Start	2729	End	3692
Name	OJ990605_39.0420.C2.o1.ts	Method	TBLASTX:Soybean
Start	2765	End	3047
GI	none	Score	205
Exons	2765..3034, 2769..3047		

Seq. No.	53696	Seq. ID	OJ990605_39.0420.C4
Gene No.	112933	Strand	+
Start	2992	End	5258
Name	OJ990605_39.0420.C4.o2.gs	Method	GENSCAN
Start	2992	End	5258
GI	none	Score	.47
Exons	2992..3076, 3222..3360, 5156..5258		

Seq. No.	53696	Seq. ID	OJ990605_39.0420.C4
Gene No.	112934	Strand	+
Start	6276	End	10734
Name	OJ990605_39.0420.C4.o3.gs	Method	GENSCAN
Start	6276	End	10331
GI	none	Score	.4
Exons	6276..6518, 6680..6734, 7020..7110, 7339..7457, 7612..8003, 9983..10331		

Seq. No.	53696	Seq. ID	OJ990605_39.0420.C4
Gene No.	112934	Strand	+
Start	6276	End	10734
Name	OJ990605_39.0420.C4.o1.gp	Method	AAT/GAP
Start	9735	End	10157
GI	none	Score	813
Exons	9735..10157		

Seq. No.	53696	Seq. ID	OJ990605_39.0420.C4
Gene No.	112934	Strand	+
Start	6276	End	10734
Name	OJ990605_39.0420.C4.o2.np	Method	AAT/NAP
Start	10056	End	10734
GI	7258382	Score	84
Exons	10056..10195, 10253..10345, 10696..10734		
GI Descrip.	(AL138650) putative protein [Arabidopsis thaliana]		

Seq. No.	53696	Seq. ID	OJ990605_39.0420.C4
Gene No.	112935	Strand	-
Start	1	End	902
Name	OJ990605_39.0420.C4.o1.np	Method	AAT/NAP
Start	1	End	662
GI	5852176	Score	192
Exons	1..23, 486..662		
GI Descrip.	(AL117265) zhb0006.1 [Oryza sativa]		

Seq. No.	53696	Seq. ID	OJ990605_39.0420.C4
Gene No.	112935	Strand	-
Start	1	End	902
Name	OJ990605_39.0420.C4.o1.gs	Method	GENSCAN
Start	517	End	902
GI	none	Score	.92
Exons	517..657, 842..902		

Seq. No.	53697	Seq. ID	OJ990605_39.0420.C5
Gene No.	112936	Strand	+
Start	1	End	2193
Name	OJ990605_39.0420.C5.o1.np	Method	AAT/NAP
Start	1	End	1816
GI	3928084	Score	1433

Exons	1..1816
GI Descrip.	(AC005770) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No.	53697	Seq. ID	OJ990605_39.0420.C5
Gene No.	112936	Strand	+
Start	1	End	2193
Name	OJ990605_39.0420.C5.o1.tc	Method	TBLASTX:Cress
Start	1	End	433
GI	none	Score	422
Exons	1..261, 2..280, 2..292, 6..302, 6..293, 294..425, 298..426, 301..423, 302..433, 302..427, 309..428		

Seq. No.	53697	Seq. ID	OJ990605_39.0420.C5
Gene No.	112936	Strand	+
Start	1	End	2193
Name	OJ990605_39.0420.C5.o3.tm	Method	TBLASTX:Maize
Start	33	End	370
GI	none	Score	319
Exons	33..362, 34..366, 41..370, 41..370		

Seq. No.	53697	Seq. ID	OJ990605_39.0420.C5
Gene No.	112936	Strand	+
Start	1	End	2193
Name	OJ990605_39.0420.C5.o1.gs	Method	GENSCAN
Start	167	End	1819
GI	none	Score	.83
Exons	167..1819		

Seq. No.	53697	Seq. ID	OJ990605_39.0420.C5
Gene No.	112936	Strand	+
Start	1	End	2193
Name	OJ990605_39.0420.C5.o2.ts	Method	TBLASTX:Soybean
Start	368	End	847
GI	none	Score	50
Exons	368..418, 440..754, 444..749, 478..753, 713..847, 739..828, 761..829		

Seq. No.	53697	Seq. ID	OJ990605_39.0420.C5
Gene No.	112936	Strand	+
Start	1	End	2193
Name	OJ990605_39.0420.C5.o2.tm	Method	TBLASTX:Maize
Start	473	End	1005
GI	none	Score	455
Exons	473..844, 478..843, 907..1005, 908..1003		

Seq. No.	53697	Seq. ID	OJ990605_39.0420.C5
Gene No.	112936	Strand	+
Start	1	End	2193
Name	OJ990605_39.0420.C5.o3.tc	Method	TBLASTX:Cress
Start	479	End	673
GI	none	Score	195
Exons	479..673, 484..666		

Seq. No.	53697	Seq. ID	OJ990605_39.0420.C5
Gene No.	112936	Strand	+
Start	1	End	2193

Name	OJ990605_39.0420.C5.o1.gp	Method	AAT/GAP
Start	797	End	1192
GI	uC-osflcyp032e09b1	Score	760
Exons	797..1192		
GI Descrip.	'3928084 6.0e-36 (AC005770) retrotransposon-like protein [Arabidopsis thaliana]'		

Seq. No.	53697	Seq. ID	OJ990605_39.0420.C5
Gene No.	112936	Strand	+
Start	1	End	2193
Name	OJ990605_39.0420.C5.o3.ts	Method	TBLASTX:Soybean
Start	935	End	1237
GI	none	Score	327
Exons	935..1237, 937..1119, 1180..1236		

Seq. No.	53697	Seq. ID	OJ990605_39.0420.C5
Gene No.	112936	Strand	+
Start	1	End	2193
Name	OJ990605_39.0420.C5.o4.tm	Method	TBLASTX:Maize
Start	1006	End	1249
GI	none	Score	281
Exons	1006..1248, 1007..1249, 1007..1246, 1036..1248		

Seq. No.	53697	Seq. ID	OJ990605_39.0420.C5
Gene No.	112936	Strand	+
Start	1	End	2193
Name	OJ990605_39.0420.C5.o2.tc	Method	TBLASTX:Cress
Start	1252	End	1651
GI	none	Score	80
Exons	1252..1311, 1256..1315, 1366..1650, 1367..1651		

Seq. No.	53697	Seq. ID	OJ990605_39.0420.C5
Gene No.	112936	Strand	+
Start	1	End	2193
Name	OJ990605_39.0420.C5.o1.ts	Method	TBLASTX:Soybean
Start	1366	End	1755
GI	none	Score	478
Exons	1366..1485, 1367..1750, 1514..1750, 1522..1755		

Seq. No.	53697	Seq. ID	OJ990605_39.0420.C5
Gene No.	112936	Strand	+
Start	1	End	2193
Name	OJ990605_39.0420.C5.o1.tm	Method	TBLASTX:Maize
Start	1433	End	1833
GI	none	Score	535
Exons	1433..1756, 1435..1782, 1436..1768, 1438..1788, 1443..1787, 1766..1828, 1768..1833, 1769..1828		

Seq. No.	53697	Seq. ID	OJ990605_39.0420.C5
Gene No.	112936	Strand	+
Start	1	End	2193
Name	OJ990605_39.0420.C5.o2.gp	Method	AAT/GAP
Start	1581	End	2193
GI	11284_1.R1084	Score	1097
Exons	1581..2193		
GI Descrip.	'3763925 1.0e-20 (AC004450) putative Af10-protein [Arabidopsis thaliana]'		

Seq. No.	53698	Seq. ID	OJ990605_39.0420.C6
Gene No.	112937	Strand	+
Start	115	End	748
Name	OJ990605_39.0420.C6.o1.gs	Method	GENSCAN
Start	115	End	748
GI	none	Score	.4
Exons	115..196, 609..748		

Seq. No.	53699	Seq. ID	OJ990605_39.0420.C7
Gene No.	112938	Strand	+
Start	827	End	3409
Name	OJ990605_39.0420.C7.o1.gs	Method	GENSCAN
Start	827	End	3406
GI	none	Score	.86
Exons	827..898, 1399..1436, 1772..1824, 1888..1907, 2172..2317, 2413..2757, 2916..2957, 3045..3143, 3222..3406		

Seq. No.	53699	Seq. ID	OJ990605_39.0420.C7
Gene No.	112938	Strand	+
Start	827	End	3409
Name	OJ990605_39.0420.C7.o1.tm	Method	TBLASTX:Maize
Start	1236	End	2294
GI	none	Score	73
Exons	1236..1283, 1238..1285, 1400..1468, 1400..1450, 1596..1676, 1598..1669, 1773..1832, 1773..1832, 1832..1849, 1966..2064, 1974..2057, 1976..2071, 1977..2084, 2172..2270, 2174..2272, 2178..2294		

Seq. No.	53699	Seq. ID	OJ990605_39.0420.C7
Gene No.	112938	Strand	+
Start	827	End	3409
Name	OJ990605_39.0420.C7.o1.np	Method	AAT/NAP
Start	1248	End	2767
GI	3763925	Score	624
Exons	1248..1282, 1399..1450, 1599..1678, 1772..1849, 1977..2060, 2172..2317, 2413..2767		
GI Descrip.	(AC004450) putative clathrin binding protein (epsin) [Arabidopsis thaliana]		

Seq. No.	53699	Seq. ID	OJ990605_39.0420.C7
Gene No.	112938	Strand	+
Start	827	End	3409
Name	OJ990605_39.0420.C7.o1.ts	Method	TBLASTX:Soybean
Start	1248	End	2299
GI	none	Score	47
Exons	1248..1283, 1400..1468, 1596..1676, 1596..1667, 1601..1675, 1773..1832, 1775..1831, 1832..1849, 1974..2066, 1980..2084, 1982..2071, 2163..2294, 2171..2299, 2178..2297		

Seq. No.	53699	Seq. ID	OJ990605_39.0420.C7
Gene No.	112938	Strand	+
Start	827	End	3409
Name	OJ990605_39.0420.C7.o1.tc	Method	TBLASTX:Cress
Start	1248	End	2060
GI	none	Score	53
Exons	1248..1283, 1400..1468, 1582..1641, 1596..1676, 1601..1678,		

1773..1832, 1775..1831, 1827..1850, 1832..1849, 1980..2060

Seq. No.	53699	Seq. ID	OJ990605_39.0420.C7
Gene No.	112938	Strand	+
Start	827	End	3409
Name	OJ990605_39.0420.C7.o1.gp	Method	AAT/GAP
Start	1986	End	2596
GI	2799744	Score	621
Exons	1986..2060, 2172..2317, 2413..2596		
GI Descrip.	3763925 1.0e-20 (AC004450) putative Af10-protein [Arabidopsis thaliana]		

Seq. No.	53699	Seq. ID	OJ990605_39.0420.C7
Gene No.	112938	Strand	+
Start	827	End	3409
Name	OJ990605_39.0420.C7.o2.tm	Method	TBLASTX:Maize
Start	2528	End	3409
GI	none	Score	125
Exons	2528..2704, 2631..2756, 2640..2756, 2642..2758, 2676..2738, 2916..2954, 2916..2972, 2917..2958, 3031..3144, 3042..3095, 3065..3148, 3219..3308, 3219..3404, 3220..3405, 3265..3405, 3284..3409		

Seq. No.	53700	Seq. ID	OJ990605_39.0420.C8
Gene No.	112939	Strand	+
Start	1	End	1967
Name	OJ990605_39.0420.C8.o1.np	Method	AAT/NAP
Start	1	End	1830
GI	3763926	Score	395
Exons	1..35, 279..1024, 1097..1244, 1328..1830		
GI Descrip.	(AC004450) unknown protein [Arabidopsis thaliana]		

Seq. No.	53700	Seq. ID	OJ990605_39.0420.C8
Gene No.	112939	Strand	+
Start	1	End	1967
Name	OJ990605_39.0420.C8.o1.gs	Method	GENSCAN
Start	228	End	1847
GI	none	Score	.44
Exons	228..535, 941..1244, 1328..1847		

Seq. No.	53700	Seq. ID	OJ990605_39.0420.C8
Gene No.	112939	Strand	+
Start	1	End	1967
Name	OJ990605_39.0420.C8.o1.gp	Method	AAT/GAP
Start	279	End	711
GI	none	Score	841
Exons	279..711		

Seq. No.	53700	Seq. ID	OJ990605_39.0420.C8
Gene No.	112939	Strand	+
Start	1	End	1967
Name	OJ990605_39.0420.C8.o1.tm	Method	TBLASTX:Maize
Start	282	End	1964
GI	none	Score	269
Exons	282..512, 283..519, 283..525, 284..526, 520..618, 520..594, 530..604, 712..831, 713..832, 714..836, 809..1249, 832..1242, 1031..1243, 1041..1280, 1307..1513, 1329..1454, 1330..1533,		

1336..1533, 1494..1571, 1505..1609, 1535..1573, 1536..1574,
1547..1621, 1551..1622, 1554..1613, 1574..1654, 1575..1721,
1577..1699, 1604..1696, 1604..1696, 1629..1760, 1635..1754,
1656..1709, 1657..1788, 1657..1755, 1657..1773, 1658..1765,
1702..1746, 1711..1866, 1714..1782, 1760..1789, 1787..1852,
1889..1963, 1890..1964

Seq. No.	53700	Seq. ID	OJ990605_39.0420.C8
Gene No.	112939	Strand	+
Start	1	End	1967
Name	OJ990605_39.0420.C8.o1.tc	Method	TBLASTX:Cress
Start	1097	End	1800
GI	none	Score	132
Exons	1097..1249, 1102..1248, 1327..1410, 1338..1400, 1380..1499, 1381..1500, 1426..1509, 1476..1565, 1595..1639, 1613..1639, 1616..1642, 1653..1733, 1654..1779, 1711..1800		

Seq. No.	53700	Seq. ID	OJ990605_39.0420.C8
Gene No.	112939	Strand	+
Start	1	End	1967
Name	OJ990605_39.0420.C8.o1.ts	Method	TBLASTX:Soybean
Start	1162	End	1515
GI	none	Score	120
Exons	1162..1248, 1163..1249, 1330..1416, 1338..1400, 1381..1515, 1435..1515		

Seq. No.	53700	Seq. ID	OJ990605_39.0420.C8
Gene No.	112939	Strand	+
Start	1	End	1967
Name	OJ990605_39.0420.C8.o2.gp	Method	AAT/GAP
Start	1578	End	1967
GI	none	Score	768
Exons	1578..1967		

Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112940	Strand	+
Start	1	End	9190
Name	OJ990605_39.0420.C9.o1.np	Method	AAT/NAP
Start	1	End	5359
GI	6815109	Score	21
Exons	1..52, 2863..2983, 3055..3376, 5248..5359		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112940	Strand	+
Start	1	End	9190
Name	OJ990605_39.0420.C9.o1.gs	Method	GENSCAN
Start	2858	End	4738
GI	none	Score	.97
Exons	2858..4738		

Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112940	Strand	+
Start	1	End	9190
Name	OJ990605_39.0420.C9.o2.gs	Method	GENSCAN
Start	5091	End	6107
GI	none	Score	.96

Exons	5091..6107		
Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112940	Strand	+
Start	1	End	9190
Name	OJ990605_39.0420.C9.o2.np	Method	AAT/NAP
Start	5964	End	9190
GI	5852093	Score	56
Exons	5964..6029, 7335..7450, 9162..9190		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		
Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112941	Strand	+
Start	14855	End	15325
Name	OJ990605_39.0420.C9.o1.gp	Method	AAT/GAP
Start	14855	End	15325
GI	none	Score	942
Exons	14855..15325		
Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112942	Strand	-
Start	10045	End	17693
Name	OJ990605_39.0420.C9.o3.gs	Method	GENSCAN
Start	10045	End	17693
GI	none	Score	.68
Exons	10045..10210, 13025..13253, 13891..13953, 13967..14053, 15482..15675, 15808..16700, 17352..17693		
Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112942	Strand	-
Start	10045	End	17693
Name	OJ990605_39.0420.C9.o3.np	Method	AAT/NAP
Start	15631	End	17654
GI	2959732	Score	299
Exons	15631..15667, 15826..16485, 17581..17654		
GI Descrip.	(Y13649) homologous to GATA-binding transcription factors [Arabidopsis thaliana] gi|4895246|gb|AAD32831.1|AC007659_13 (AC007659) putative GATA-type zinc finger transcription factor [Arabidopsis thaliana]		
Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112942	Strand	-
Start	10045	End	17693
Name	OJ990605_39.0420.C9.o2.gp	Method	AAT/GAP
Start	15963	End	16394
GI	uC-osroM202001c10a1	Score	856
Exons	15963..16394		
GI Descrip.	'2959732/emb|CAA74000| 3.0e-09 (Y13649) homologous to GATA-binding transcription factors [Arabidopsis thaliana] >gi_4895246_gb_AAD32831.1_AC007659_13 (AC007659) putative GATA-binding transcription factor [Arabidopsis thaliana]'		
Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112943	Strand	-
Start	18590	End	18791
Name	OJ990605_39.0420.C9.o4.ts	Method	TBLASTX:Soybean
Start	2972	End	3136

GI	none	Score	211
Exons	2972..3136, 2980..3135		

Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112943	Strand	-
Start	18590	End	18791
Name	OJ990605_39.0420.C9.o1.tc	Method	TBLASTX:Cress
Start	3445	End	3961
GI	none	Score	788
Exons	3445..3960, 3446..3961		

Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112943	Strand	-
Start	18590	End	18791
Name	OJ990605_39.0420.C9.o3.ts	Method	TBLASTX:Soybean
Start	4240	End	4474
GI	none	Score	166
Exons	4240..4380, 4241..4351, 4351..4461, 4352..4474		

Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112943	Strand	-
Start	18590	End	18791
Name	OJ990605_39.0420.C9.o2.tc	Method	TBLASTX:Cress
Start	5079	End	5393
GI	none	Score	337
Exons	5079..5393, 5081..5128, 5195..5389		

Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112943	Strand	-
Start	18590	End	18791
Name	OJ990605_39.0420.C9.o1.ts	Method	TBLASTX:Soybean
Start	5408	End	5675
GI	none	Score	212
Exons	5408..5539, 5409..5549, 5558..5674, 5558..5674, 5559..5675		

Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112943	Strand	-
Start	18590	End	18791
Name	OJ990605_39.0420.C9.o4.tc	Method	TBLASTX:Cress
Start	5759	End	6107
GI	none	Score	88
Exons	5759..5797, 5775..5945, 5883..6041, 5900..6040, 6048..6107		

Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112943	Strand	-
Start	18590	End	18791
Name	OJ990605_39.0420.C9.o3.tm	Method	TBLASTX:Maize
Start	14996	End	15454
GI	none	Score	64
Exons	14996..15076, 14998..15078, 15129..15155, 15130..15159, 15185..15226, 15204..15233, 15233..15322, 15234..15323, 15315..15347, 15315..15350, 15412..15453, 15413..15454		

Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112943	Strand	-
Start	18590	End	18791
Name	OJ990605_39.0420.C9.o1.tm	Method	TBLASTX:Maize

Start	15846	End	16082
GI	none	Score	211
Exons	15846..16082, 15853..16050		

Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112943	Strand	-
Start	18590	End	18791
Name	OJ990605_39.0420.C9.o3.tc	Method	TBLASTX:Cress
Start	15846	End	16049
GI	none	Score	216
Exons	15846..16049, 15856..16041		

Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112943	Strand	-
Start	18590	End	18791
Name	OJ990605_39.0420.C9.o2.ts	Method	TBLASTX:Soybean
Start	15852	End	16049
GI	none	Score	231
Exons	15852..16049, 15856..16041		

Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112943	Strand	-
Start	18590	End	18791
Name	OJ990605_39.0420.C9.o2.tm	Method	TBLASTX:Maize
Start	16365	End	16706
GI	none	Score	108
Exons	16365..16394, 16459..16599, 16620..16688	16470..16589, 16608..16706,	

Seq. No.	53701	Seq. ID	OJ990605_39.0420.C9
Gene No.	112943	Strand	-
Start	18590	End	18791
Name	OJ990605_39.0420.C9.o4.gs	Method	GENSCAN
Start	18590	End	18791
GI	none	Score	.89
Exons	18590..18791		

Seq. No.	53702	Seq. ID	OJ990605_39.0420.C10
Gene No.	112944	Strand	+
Start	1466	End	2611
Name	OJ990605_39.0420.C10.o1.gs	Method	GENSCAN
Start	1466	End	2611
GI	none	Score	.53
Exons	1466..1590, 1853..2027, 2501..2611		

Seq. No.	53702	Seq. ID	OJ990605_39.0420.C10
Gene No.	112945	Strand	-
Start	1	End	495
Name	OJ990605_39.0420.C10.o1.gp	Method	AAT/GAP
Start	1	End	495
GI	none	Score	846
Exons	1..495		

Seq. No.	53703	Seq. ID	OJ990605_39.0420.C13
Gene No.	112946	Strand	+
Start	2175	End	5989
Name	OJ990605_39.0420.C13.o1.gs	Method	GENSCAN

Start	2175	End	5391
GI	none	Score	.64
Exons	2175..2283, 2351..2516, 3859..4086, 4412..4703, 4709..4919, 5261..5391		

Seq. No.	53703	Seq. ID	OJ990605_39.0420.C13
Gene No.	112946	Strand	+
Start	2175	End	5989
Name	OJ990605_39.0420.C13.o1.np	Method	AAT/NAP
Start	4566	End	5989
GI	6907088	Score	769
Exons	4566..4703, 4879..5117, 5606..5989		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	53703	Seq. ID	OJ990605_39.0420.C13
Gene No.	112947	Strand	-
Start	6050	End	6206
Name	OJ990605_39.0420.C13.o2.gs	Method	GENSCAN
Start	6050	End	6206
GI	none	Score	.89
Exons	6050..6206		

Seq. No.	53704	Seq. ID	OJ990605_39.0420.C15
Gene No.	112948	Strand	+
Start	991	End	3468
Name	OJ990605_39.0420.C15.o1.np	Method	AAT/NAP
Start	991	End	3468
GI	3355308	Score	1065
Exons	991..1579, 1637..1924, 2011..2149, 2239..3468		
GI Descrip.	(AJ009695) wall-associated kinase 4 [Arabidopsis thaliana]		

Seq. No.	53704	Seq. ID	OJ990605_39.0420.C15
Gene No.	112948	Strand	+
Start	991	End	3468
Name	OJ990605_39.0420.C15.o1.gs	Method	GENSCAN
Start	1018	End	3452
GI	none	Score	.72
Exons	1018..1924, 2011..2178, 2269..3452		

Seq. No.	53704	Seq. ID	OJ990605_39.0420.C15
Gene No.	112949	Strand	-
Start	3959	End	4336
Name	OJ990605_39.0420.C15.o1.tc	Method	TBLASTX:Cress
Start	1057	End	3308
GI	none	Score	99
Exons	1057..1131, 1828..1923, 2346..2402, 2442..3308, 2549..2746, 2843..3268		

Seq. No.	53704	Seq. ID	OJ990605_39.0420.C15
Gene No.	112949	Strand	-
Start	3959	End	4336
Name	OJ990605_39.0420.C15.o1.tm	Method	TBLASTX:Maize
Start	2330	End	3329
GI	none	Score	77
Exons	2330..2398, 2331..2402, 2442..2744, 2444..2491, 2549..2728, 2607..3269, 2778..3329, 2843..3328		

Seq. No.	53704	Seq. ID	OJ990605_39.0420.C15
Gene No.	112949	Strand	-
Start	3959	End	4336
Name	OJ990605_39.0420.C15.o1.ts	Method	TBLASTX:Soybean
Start	2346	End	3152
GI	none	Score	65
Exons	2346..2402, 2442..2582, 2565..3152, 2603..2728, 2858..3079		

Seq. No.	53704	Seq. ID	OJ990605_39.0420.C15
Gene No.	112949	Strand	-
Start	3959	End	4336
Name	OJ990605_39.0420.C15.o1.tw	Method	TBLASTX:Wheat
Start	2460	End	2822
GI	none	Score	354
Exons	2460..2822, 2555..2737		

Seq. No.	53704	Seq. ID	OJ990605_39.0420.C15
Gene No.	112949	Strand	-
Start	3959	End	4336
Name	OJ990605_39.0420.C15.o2.tw	Method	TBLASTX:Wheat
Start	2823	End	3098
GI	none	Score	132
Exons	2823..2954, 2825..2953, 2955..3098, 2960..3073, 2991..3083		

Seq. No.	53704	Seq. ID	OJ990605_39.0420.C15
Gene No.	112949	Strand	-
Start	3959	End	4336
Name	OJ990605_39.0420.C15.o2.gs	Method	GENSCAN
Start	3959	End	4336
GI	none	Score	.63
Exons	3959..4078, 4240..4336		

Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112950	Strand	+
Start	136	End	366
Name	OJ990605_39.0420.C17.o1.gs	Method	GENSCAN
Start	136	End	366
GI	none	Score	.63
Exons	136..366		

Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112951	Strand	+
Start	2178	End	11840
Name	OJ990605_39.0420.C17.o2.gs	Method	GENSCAN
Start	2178	End	11840
GI	none	Score	.74
Exons	2178..2288, 2391..2562, 2627..2836, 2939..3066, 3415..3513, 3977..4129, 4713..4816, 4983..5050, 5424..5528, 6204..6644, 6736..6975, 7068..7234, 7326..7506, 7594..7646, 7785..7928, 8080..8184, 8655..8780, 8869..9066, 10235..10328, 10470..10581, 11068..11269, 11394..11840		

Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112951	Strand	+
Start	2178	End	11840
Name	OJ990605_39.0420.C17.o2.gp	Method	AAT/GAP
Start	2421	End	4021

GI	10521_1.R1084	Score	1045
Exons	2421..2562, 2685..2836, 2939..3066, 3415..3513, 3977..4021		
GI Descrip.	'2388911/emb|CAB11648.1| 2.0e-36 (Z98974) hypothetical PSU1-like protein [Schizosaccharomyces pombe]'		

Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112951	Strand	+
Start	2178	End	11840
Name	OJ990605_39.0420.C17.o2.np	Method	AAT/NAP
Start	2513	End	9575
GI	7492013	Score	310
Exons	2513..2562, 2685..2836, 2939..3066, 3415..3513, 3977..4129, 4713..4820, 9556..9575		
GI Descrip.	hypothetical PSU1-like protein - fission yeast (Schizosaccharomyces pombe) gi|2388911|emb|CAB11648.1| (Z98974) hypothetical PSU1-like protein [Schizosaccharomyces pombe]		

Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112951	Strand	+
Start	2178	End	11840
Name	OJ990605_39.0420.C17.o3.gp	Method	AAT/GAP
Start	4733	End	5802
GI	30689_1.R1084	Score	976
Exons	4733..4816, 4983..5050, 5424..5802		
GI Descrip.	'3402685 5.0e-31 (AC004697) unknown protein [Arabidopsis thaliana]'		

Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112951	Strand	+
Start	2178	End	11840
Name	OJ990605_39.0420.C17.o3.np	Method	AAT/NAP
Start	4935	End	11822
GI	7487053	Score	1305
Exons	4935..5039, 6487..6569, 7068..7302, 7433..7506, 7594..7646, 7785..7928, 8080..8184, 8655..8780, 8869..9066, 9437..9543, 9702..9875, 10087..10141, 10235..10329, 10470..10581, 10856..10968, 11358..11565, 11596..11822		
GI Descrip.	hypothetical protein T16B24.17 - Arabidopsis thaliana gi|3402685|gb|AAC28988.1| (AC004697) putative ABC transporter [Arabidopsis thaliana]		

Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112951	Strand	+
Start	2178	End	11840
Name	OJ990605_39.0420.C17.o4.gp	Method	AAT/GAP
Start	8637	End	9467
GI	3768340	Score	631
Exons	8637..8780, 8869..9066, 9437..9467		
GI Descrip.	3402685 5.0e-31 (AC004697) unknown protein [Arabidopsis thaliana]		

Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112952	Strand	-
Start	1	End	5631
Name	OJ990605_39.0420.C17.o1.np	Method	AAT/NAP
Start	1	End	2785
GI	3928085	Score	411

Exons	1..44, 1244..1685, 2649..2785		
GI Descrip.	(AC005770) unknown protein [Arabidopsis thaliana]		
Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112952	Strand	-
Start	1	End	5631
Name	OJ990605_39.0420.C17.o2.tm	Method	TBLASTX:Maize
Start	1244	End	1585
GI	none	Score	60
Exons	1244..1333, 1245..1340, 1245..1343, 1282..1344, 1341..1583, 1349..1585		
Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112952	Strand	-
Start	1	End	5631
Name	OJ990605_39.0420.C17.o1.ts	Method	TBLASTX:Soybean
Start	1245	End	1694
GI	none	Score	107
Exons	1245..1619, 1245..1694, 1411..1647		
Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112952	Strand	-
Start	1	End	5631
Name	OJ990605_39.0420.C17.o1.tc	Method	TBLASTX:Cress
Start	1365	End	1658
GI	none	Score	113
Exons	1365..1658, 1434..1646		
Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112952	Strand	-
Start	1	End	5631
Name	OJ990605_39.0420.C17.o1.gp	Method	AAT/GAP
Start	1473	End	2196
GI	1631517	Score	608
Exons	1473..1642, 2041..2196		
GI Descrip.	3928085 8.0e-17 (AC005770) unknown protein [Arabidopsis thaliana]		
Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112952	Strand	-
Start	1	End	5631
Name	OJ990605_39.0420.C17.o3.tm	Method	TBLASTX:Maize
Start	2525	End	5631
GI	none	Score	66
Exons	2525..2560, 2681..2779, 2682..2831, 2689..2835, 2700..2813, 2938..3066, 2940..3062, 3412..3516, 3414..3515, 3970..4140, 3974..4129, 4712..4813, 4713..4814, 4980..5051, 4984..5052, 5419..5517, 5421..5447, 5423..5482, 5483..5623, 5488..5631, 5488..5622		
Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112952	Strand	-
Start	1	End	5631
Name	OJ990605_39.0420.C17.o2.tc	Method	TBLASTX:Cress
Start	2528	End	2832
GI	none	Score	49
Exons	2528..2560, 2689..2832, 2691..2813		

Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112952	Strand	-
Start	1	End	5631
Name	OJ990605_39.0420.C17.o2.ts	Method	TBLASTX:Soybean
Start	2528	End	4120
GI	none	Score	61
Exons	2528..2560, 2689..2835, 2691..2810, 2938..3066, 2940..3056, 3412..3447, 3414..3437, 3447..3515, 3448..3516, 3967..4119, 3974..4120		

Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112953	Strand	
Start	8995	End	9864
Name	OJ990605_39.0420.C17.o5.tm	Method	TBLASTX:Maize
Start	8995	End	9864
GI	none	Score	71
Exons	8995..9069, 9431..9550, 9431..9544, 9454..9546, 9697..9864, 9697..9864		

Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112953	Strand	
Start	8995	End	9864
Name	OJ990605_39.0420.C17.o3.ts	Method	TBLASTX:Soybean
Start	9437	End	9843
GI	none	Score	157
Exons	9437..9550, 9460..9546, 9697..9843, 9702..9842		

Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112954	Strand	
Start	10207	End	10928
Name	OJ990605_39.0420.C17.o4.tm	Method	TBLASTX:Maize
Start	10207	End	10928
GI	none	Score	179
Exons	10207..10353, 10215..10412, 10223..10354, 10470..10574, 10471..10587, 10474..10581, 10475..10588, 10814..10924, 10835..10927, 10854..10928		

Seq. No.	53705	Seq. ID	OJ990605_39.0420.C17
Gene No.	112955	Strand	
Start	11044	End	11791
Name	OJ990605_39.0420.C17.o1.tm	Method	TBLASTX:Maize
Start	11044	End	11791
GI	none	Score	50
Exons	11044..11103, 11054..11104, 11065..11160, 11097..11162, 11099..11155, 11155..11268, 11174..11269, 11174..11269, 11375..11515, 11379..11777, 11379..11774, 11546..11791		

Seq. No.	53706	Seq. ID	OJ990605_39.0420.C18
Gene No.	112956	Strand	+
Start	785	End	1302
Name	OJ990605_39.0420.C18.o1.gs	Method	GENSCAN
Start	785	End	1302
GI	none	Score	.86
Exons	785..896, 1219..1302		

Seq. No.	53707	Seq. ID	OJ990605_39.0420.C19

Gene No.	112957	Strand	-
Start	159	End	2256
Name	OJ990605_39.0420.C19.o2.tm	Method	TBLASTX:Maize
Start	102	End	1000
GI	none	Score	168
Exons	102..143, 145..297, 149..358, 153..356, 155..358, 526..702, 536..703, 540..704, 847..999, 878..1000		

Seq. No.	53707	Seq. ID	OJ990605_39.0420.C19
Gene No.	112957	Strand	-
Start	159	End	2256
Name	OJ990605_39.0420.C19.o1.gs	Method	GENSCAN
Start	159	End	2256
GI	none	Score	.65
Exons	159..355, 539..727, 882..989, 1089..1170, 1252..1431, 1867..2256		

Seq. No.	53707	Seq. ID	OJ990605_39.0420.C19
Gene No.	112957	Strand	-
Start	159	End	2256
Name	OJ990605_39.0420.C19.o2.ts	Method	TBLASTX:Soybean
Start	159	End	317
GI	none	Score	101
Exons	159..314, 159..317		

Seq. No.	53707	Seq. ID	OJ990605_39.0420.C19
Gene No.	112957	Strand	-
Start	159	End	2256
Name	OJ990605_39.0420.C19.o1.np	Method	AAT/NAP
Start	162	End	2127
GI	7430973	Score	960
Exons	162..355, 539..697, 882..989, 1089..1170, 1252..1431, 1867..2127		
GI Descrip.	quinone reductase homolog F18E5.200 - Arabidopsis thaliana gi|3080402|emb|CAA18722.1| (AL022603) putative NADPH quinone oxidoreductase [Arabidopsis thaliana] gi|4455266|emb|CAB36802.1| (AL035527) putative NADPH quinone oxidoreductase [Arabidopsis thaliana] gi|7268955|emb|CAB81265.1| (AL161555) putative NADPH quinone oxidoreductase [Arabidopsis thaliana]		

Seq. No.	53707	Seq. ID	OJ990605_39.0420.C19
Gene No.	112957	Strand	-
Start	159	End	2256
Name	OJ990605_39.0420.C19.o2.tc	Method	TBLASTX:Cress
Start	168	End	715
GI	none	Score	101
Exons	168..353, 175..297, 537..698, 538..699, 623..715		

Seq. No.	53707	Seq. ID	OJ990605_39.0420.C19
Gene No.	112957	Strand	-
Start	159	End	2256
Name	OJ990605_39.0420.C19.o1.tc	Method	TBLASTX:Cress
Start	895	End	2127
GI	none	Score	120
Exons	895..933, 952..1002, 1049..1165, 1087..1170, 1127..1180, 1249..1434, 1253..1432, 1864..1887, 1903..1935, 1975..2055, 2068..2127		

Seq. No.	53707	Seq. ID	OJ990605_39.0420.C19

Gene No.	112957	Strand	-
Start	159	End	2256
Name	OJ990605_39.0420.C19.o1.ts	Method	TBLASTX:Soybean
Start	925	End	2130
GI	none	Score	69
Exons	925..1002, 926..1000, 1052..1165, 1087..1176, 1087..1176, 1249..1434, 1271..1432, 1285..1434, 1897..2055, 2056..2130		

Seq. No.	53707	Seq. ID	OJ990605_39.0420.C19
Gene No.	112957	Strand	-
Start	159	End	2256
Name	OJ990605_39.0420.C19.o1.tm	Method	TBLASTX:Maize
Start	1087	End	2169
GI	none	Score	151
Exons	1087..1170, 1088..1171, 1249..1434, 1252..1434, 1864..2133, 1865..2005, 2071..2169, 2082..2168		

Seq. No.	53708	Seq. ID	OJ990605_39.0420.C20
Gene No.	112958	Strand	+
Start	1	End	1284
Name	OJ990605_39.0420.C20.o1.np	Method	AAT/NAP
Start	1	End	1284
GI	2736075	Score	546
Exons	1..164, 778..1284		
GI Descrip.	(AF016644) PAP-specific phosphatase; HAL2-like protein [Arabidopsis thaliana]		

Seq. No.	53708	Seq. ID	OJ990605_39.0420.C20
Gene No.	112958	Strand	+
Start	1	End	1284
Name	OJ990605_39.0420.C20.o1.gs	Method	GENSCAN
Start	26	End	488
GI	none	Score	.95
Exons	26..164, 478..488		

Seq. No.	53708	Seq. ID	OJ990605_39.0420.C20
Gene No.	112959	Strand	-
Start	870	End	1280
Name	OJ990605_39.0420.C20.o1.ts	Method	TBLASTX:Soybean
Start	11	End	1280
GI	none	Score	70
Exons	11..82, 754..885, 771..1067, 771..1067, 1073..1189, 1075..1272, 1086..1280, 1205..1279		

Seq. No.	53708	Seq. ID	OJ990605_39.0420.C20
Gene No.	112959	Strand	-
Start	870	End	1280
Name	OJ990605_39.0420.C20.o1.tc	Method	TBLASTX:Cress
Start	23	End	1280
GI	none	Score	50
Exons	23..82, 125..163, 771..1187, 776..1186, 1236..1280		

Seq. No.	53708	Seq. ID	OJ990605_39.0420.C20
Gene No.	112959	Strand	-
Start	870	End	1280
Name	OJ990605_39.0420.C20.o1.tm	Method	TBLASTX:Maize
Start	771	End	1172

GI	none	Score	80
Exons	771..977, 975..1172, 998..1171		

Seq. No.	53708	Seq. ID	OJ990605_39.0420.C20
Gene No.	112959	Strand	-
Start	870	End	1280
Name	OJ990605_39.0420.C20.o2.gs	Method	GENSCAN
Start	870	End	1112
GI	none	Score	.61
Exons	870..1112		

Seq. No.	53708	Seq. ID	OJ990605_39.0420.C20
Gene No.	112959	Strand	-
Start	870	End	1280
Name	OJ990605_39.0420.C20.o1.tw	Method	TBLASTX:Wheat
Start	975	End	1166
GI	none	Score	223
Exons	975..1166, 989..1165		

Seq. No.	53709	Seq. ID	OJ990605_39.0420.C22
Gene No.	112960	Strand	+
Start	1	End	1804
Name	OJ990605_39.0420.C22.o1.np	Method	AAT/NAP
Start	1	End	1804
GI	5852176	Score	160
Exons	1..45, 417..551, 1759..1804		
GI Descrip.	(AL117265) zhb0006.1 [Oryza sativa]		

Seq. No.	53709	Seq. ID	OJ990605_39.0420.C22
Gene No.	112960	Strand	+
Start	1	End	1804
Name	OJ990605_39.0420.C22.o1.gs	Method	GENSCAN
Start	417	End	564
GI	none	Score	.89
Exons	417..564		

Seq. No.	53709	Seq. ID	OJ990605_39.0420.C22
Gene No.	112961	Strand	-
Start	1518	End	1582
Name	OJ990605_39.0420.C22.o2.gs	Method	GENSCAN
Start	1518	End	1582
GI	none	Score	.77
Exons	1518..1582		

Seq. No.	53710	Seq. ID	OJ990605_39.0420.C23
Gene No.	112962	Strand	+
Start	123	End	308
Name	OJ990605_39.0420.C23.o1.gp	Method	AAT/GAP
Start	123	End	308
GI	3763456	Score	309
Exons	123..308		

Seq. No.	53710	Seq. ID	OJ990605_39.0420.C23
Gene No.	112963	Strand	-
Start	163	End	572
Name	OJ990605_39.0420.C23.o1.gs	Method	GENSCAN
Start	163	End	572

GI	none	Score	.69
Exons	163..207, 450..572		

Seq. No.	53711	Seq. ID	OJ990605_39.0420.C24
Gene No.	112964	Strand	+
Start	1103	End	1514
Name	OJ990605_39.0420.C24.o1.gp	Method	AAT/GAP
Start	1103	End	1514
GI	uC-osflm202106a01b1	Score	494
Exons	1103..1319, 1465..1514		
GI Descrip.	'4006914/emb|CAB16844.1| 9.0e-23 (Z99708) serine C-palmitoyltransferase like protein [Arabidopsis thaliana]'		

Seq. No.	53711	Seq. ID	OJ990605_39.0420.C24
Gene No.	112965	Strand	+
Start	1528	End	3514
Name	OJ990605_39.0420.C24.o1.np	Method	AAT/NAP
Start	1528	End	3514
GI	4006914	Score	754
Exons	1528..1633, 1731..1825, 1937..2028, 2435..2528, 2603..2675, 2779..2911, 3312..3514		
GI Descrip.	(Z99708) serine C-palmitoyltransferase like protein [Arabidopsis thaliana]		

Seq. No.	53711	Seq. ID	OJ990605_39.0420.C24
Gene No.	112965	Strand	+
Start	1528	End	3514
Name	OJ990605_39.0420.C24.o2.gs	Method	GENSCAN
Start	1528	End	3486
GI	none	Score	.84
Exons	1528..1633, 1731..1825, 1937..2028, 2563..2675, 2779..2911, 3312..3486		

Seq. No.	53711	Seq. ID	OJ990605_39.0420.C24
Gene No.	112966	Strand	-
Start	406	End	1439
Name	OJ990605_39.0420.C24.o1.gs	Method	GENSCAN
Start	406	End	1439
GI	none	Score	.62
Exons	406..555, 1124..1439		

Seq. No.	53711	Seq. ID	OJ990605_39.0420.C24
Gene No.	112967	Strand	
Start	1588	End	2011
Name	OJ990605_39.0420.C24.o2.ts	Method	TBLASTX:Soybean
Start	1588	End	2011
GI	none	Score	59
Exons	1588..1635, 1730..1825, 1925..2011		

Seq. No.	53711	Seq. ID	OJ990605_39.0420.C24
Gene No.	112968	Strand	
Start	2420	End	3486
Name	OJ990605_39.0420.C24.o1.tm	Method	TBLASTX:Maize
Start	2420	End	2807
GI	none	Score	134
Exons	2420..2524, 2421..2528, 2423..2524, 2578..2673, 2594..2674, 2604..2678, 2616..2678, 2778..2807		

Seq. No.	53711	Seq. ID	OJ990605_39.0420.C24
Gene No.	112968	Strand	
Start	2420	End	3486
Name	OJ990605_39.0420.C24.o1.ts	Method	TBLASTX:Soybean
Start	2427	End	3486
GI	none	Score	139
Exons	2427..2528, 2427..2522, 2432..2530, 2593..2673, 2594..2674, 2777..2911, 2778..2966, 2778..2915, 3310..3486, 3312..3485		

Seq. No.	53711	Seq. ID	OJ990605_39.0420.C24
Gene No.	112968	Strand	
Start	2420	End	3486
Name	OJ990605_39.0420.C24.o1.tc	Method	TBLASTX:Cress
Start	2590	End	3449
GI	none	Score	46
Exons	2590..2667, 2593..2697, 2594..2716, 2777..2911, 2778..2966, 3310..3447, 3312..3449, 3312..3449		

Seq. No.	53712	Seq. ID	OJ990605_39.0420.C25
Gene No.	112969	Strand	+
Start	1	End	1578
Name	OJ990605_39.0420.C25.o1.np	Method	AAT/NAP
Start	1	End	1426
GI	4006914	Score	641
Exons	1..234, 434..529, 626..748, 1032..1157, 1256..1426		
GI Descrip.	(Z99708) serine C-palmitoyltransferase like protein [Arabidopsis thaliana]		

Seq. No.	53712	Seq. ID	OJ990605_39.0420.C25
Gene No.	112969	Strand	+
Start	1	End	1578
Name	OJ990605_39.0420.C25.o1.gs	Method	GENSCAN
Start	94	End	1420
GI	none	Score	.94
Exons	94..234, 434..529, 626..767, 1030..1157, 1256..1420		

Seq. No.	53712	Seq. ID	OJ990605_39.0420.C25
Gene No.	112969	Strand	+
Start	1	End	1578
Name	OJ990605_39.0420.C25.o1.gp	Method	AAT/GAP
Start	1080	End	1578
GI	568349	Score	774
Exons	1080..1157, 1256..1578		
GI Descrip.	4006914/emb|CAB16844.1| 9.0e-23 (Z99708) serine C-palmitoyltransferase like protein [Arabidopsis thaliana]		

Seq. No.	53712	Seq. ID	OJ990605_39.0420.C25
Gene No.	112970	Strand	+
Start	8796	End	12776
Name	OJ990605_39.0420.C25.o3.gs	Method	GENSCAN
Start	8796	End	12342
GI	none	Score	.64
Exons	8796..8984, 9112..9137, 9869..9909, 10011..10130, 10457..10648, 10664..10788, 11066..11165, 11347..11460, 11665..11887, 12189..12342		

Seq. No.	53712	Seq. ID	OJ990605_39.0420.C25
Gene No.	112970	Strand	+
Start	8796	End	12776
Name	OJ990605_39.0420.C25.o3.np	Method	AAT/NAP
Start	11727	End	12776
GI	7486520	Score	235
Exons	11727..11887, 12189..12327, 12656..12776		
GI Descrip.	hypothetical protein F6H11.180 - Arabidopsis thaliana gi|2827716|emb|CAA16689.1| (AL021684) predicted protein [Arabidopsis thaliana]		

Seq. No.	53712	Seq. ID	OJ990605_39.0420.C25
Gene No.	112971	Strand	-
Start	3389	End	4698
Name	OJ990605_39.0420.C25.o3.ts	Method	TBLASTX:Soybean
Start	91	End	717
GI	none	Score	201
Exons	91..237, 91..231, 93..236, 376..516, 379..525, 434..529, 611..709, 625..717		

Seq. No.	53712	Seq. ID	OJ990605_39.0420.C25
Gene No.	112971	Strand	-
Start	3389	End	4698
Name	OJ990605_39.0420.C25.o3.tm	Method	TBLASTX:Maize
Start	607	End	1417
GI	none	Score	129
Exons	607..765, 611..766, 613..768, 1018..1113, 1028..1147, 1029..1160, 1240..1395, 1244..1417, 1254..1367, 1255..1413		

Seq. No.	53712	Seq. ID	OJ990605_39.0420.C25
Gene No.	112971	Strand	-
Start	3389	End	4698
Name	OJ990605_39.0420.C25.o2.tc	Method	TBLASTX:Cress
Start	1031	End	1396
GI	none	Score	96
Exons	1031..1153, 1038..1157, 1253..1396, 1261..1389		

Seq. No.	53712	Seq. ID	OJ990605_39.0420.C25
Gene No.	112971	Strand	-
Start	3389	End	4698
Name	OJ990605_39.0420.C25.o2.ts	Method	TBLASTX:Soybean
Start	1253	End	1417
GI	none	Score	220
Exons	1253..1417, 1255..1413		

Seq. No.	53712	Seq. ID	OJ990605_39.0420.C25
Gene No.	112971	Strand	-
Start	3389	End	4698
Name	OJ990605_39.0420.C25.o2.gp	Method	AAT/GAP
Start	3389	End	3970
GI	16760_1.R1084	Score	847
Exons	3389..3750, 3873..3970		
GI Descrip.	'4006914/emb|CAB16844.1| 9.0e-23 (Z99708) serine C-palmitoyltransferase like protein [Arabidopsis thaliana]'		

Seq. No.	53712	Seq. ID	OJ990605_39.0420.C25
Gene No.	112971	Strand	-

Start	3389	End	4698
Name	OJ990605_39.0420.C25.o2.tm	Method	TBLASTX:Maize
Start	3668	End	4134
GI	none	Score	111
Exons	3668..3760, 3837..3944, 3872..4132, 3872..3937, 3874..4134		

Seq. No.	53712	Seq. ID	OJ990605_39.0420.C25
Gene No.	112971	Strand	-
Start	3389	End	4698
Name	OJ990605_39.0420.C25.o2.np	Method	AAT/NAP
Start	3710	End	4683
GI	6318615	Score	749
Exons	3710..3750, 3873..4683		
GI Descrip.	(AF162661) phosphoenolpyruvate carboxylase kinase [Kalanchoe fedtschenkoi] gi|6318617|gb|AAF06970.1|AF162662_1 (AF162662) phosphoenolpyruvate carboxylase kinase [Kalanchoe fedtschenkoi]		

Seq. No.	53712	Seq. ID	OJ990605_39.0420.C25
Gene No.	112971	Strand	-
Start	3389	End	4698
Name	OJ990605_39.0420.C25.o1.tw	Method	TBLASTX:Wheat
Start	3865	End	4215
GI	none	Score	74
Exons	3865..4137, 4117..4215		

Seq. No.	53712	Seq. ID	OJ990605_39.0420.C25
Gene No.	112971	Strand	-
Start	3389	End	4698
Name	OJ990605_39.0420.C25.o1.tc	Method	TBLASTX:Cress
Start	3874	End	4660
GI	none	Score	63
Exons	3874..4137, 4117..4215, 4231..4452, 4546..4659, 4565..4660		

Seq. No.	53712	Seq. ID	OJ990605_39.0420.C25
Gene No.	112971	Strand	-
Start	3389	End	4698
Name	OJ990605_39.0420.C25.o1.ts	Method	TBLASTX:Soybean
Start	3874	End	4671
GI	none	Score	94
Exons	3874..4137, 3878..4123, 4117..4215, 4121..4156, 4228..4452, 4549..4671		

Seq. No.	53712	Seq. ID	OJ990605_39.0420.C25
Gene No.	112971	Strand	-
Start	3389	End	4698
Name	OJ990605_39.0420.C25.o1.tm	Method	TBLASTX:Maize
Start	4243	End	4698
GI	none	Score	168
Exons	4243..4458, 4246..4458, 4471..4503, 4546..4698, 4559..4660		

Seq. No.	53713	Seq. ID	OJ990605_30.0419.C4
Gene No.	112972	Strand	+
Start	736	End	1710
Name	OJ990605_30.0419.C4.o1.gs	Method	GENSCAN
Start	736	End	1710
GI	none	Score	.55
Exons	736..813, 1446..1710		

Seq. No.	53714	Seq. ID	OJ990605_30.0419.C6
Gene No.	112973	Strand	-
Start	144	End	280
Name	OJ990605_30.0419.C6.o1.gs	Method	GENSCAN
Start	144	End	280
GI	none	Score	.44
Exons	144..280		

Seq. No.	53715	Seq. ID	OJ990605_30.0419.C12
Gene No.	112974	Strand	-
Start	1	End	1020
Name	OJ990605_30.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	1020
GI	7489737	Score	216
Exons	1..431, 887..1020		
GI Descrip.	gag protein homolog - maize retrotransposon Opie-2 gi|3645898|gb|AAC49501.1| (U68408) in-frame stop codon; possibly a post-transposition mutation [Zea mays]		

Seq. No.	53715	Seq. ID	OJ990605_30.0419.C12
Gene No.	112974	Strand	-
Start	1	End	1020
Name	OJ990605_30.0419.C12.o1.tw	Method	TBLASTX:Wheat
Start	84	End	431
GI	none	Score	66
Exons	84..431, 298..396, 303..398		

Seq. No.	53716	Seq. ID	OJ990605_30.0419.C13
Gene No.	112975	Strand	+
Start	136	End	352
Name	OJ990605_30.0419.C13.o1.gp	Method	AAT/GAP
Start	136	End	352
GI	1211_2.R1084	Score	143
Exons	136..206, 300..352		
GI Descrip.	'5106775/gb|AAD39838.1|AF067732_1 2.0e-67 (AF067732) ribosomal protein S12 [Hordeum vulgare]'		

Seq. No.	53716	Seq. ID	OJ990605_30.0419.C13
Gene No.	112976	Strand	-
Start	177	End	392
Name	OJ990605_30.0419.C13.o1.gs	Method	GENSCAN
Start	177	End	392
GI	none	Score	.52
Exons	177..392		

Seq. No.	53717	Seq. ID	OJ990605_30.0419.C15
Gene No.	112977	Strand	+
Start	208	End	431
Name	OJ990605_30.0419.C15.o1.gp	Method	AAT/GAP
Start	208	End	431
GI	1211_2.R1084	Score	297
Exons	208..431		
GI Descrip.	'5106775/gb|AAD39838.1|AF067732_1 2.0e-67 (AF067732) ribosomal protein S12 [Hordeum vulgare]'		

Seq. No.	53717	Seq. ID	OJ990605_30.0419.C15

Gene No.	112978	Strand	-
Start	604	End	1015
Name	OJ990605_30.0419.C15.o1.gs	Method	GENSCAN
Start	604	End	1015
GI	none	Score	.74
Exons	604..1015		

Seq. No.	53718	Seq. ID	OJ990605_30.0419.C16
Gene No.	112979	Strand	-
Start	374	End	488
Name	OJ990605_30.0419.C16.o1.gs	Method	GENSCAN
Start	374	End	488
GI	none	Score	.75
Exons	374..488		

Seq. No.	53719	Seq. ID	OJ990605_30.0419.C18
Gene No.	112980	Strand	+
Start	1427	End	1538
Name	OJ990605_30.0419.C18.o1.gs	Method	GENSCAN
Start	1427	End	1538
GI	none	Score	.72
Exons	1427..1538		

Seq. No.	53720	Seq. ID	OJ990605_30.0419.C19
Gene No.	112981	Strand	+
Start	256	End	2107
Name	OJ990605_30.0419.C19.o1.gs	Method	GENSCAN
Start	256	End	1861
GI	none	Score	.6
Exons	256..384, 501..583, 1433..1861		

Seq. No.	53720	Seq. ID	OJ990605_30.0419.C19
Gene No.	112981	Strand	+
Start	256	End	2107
Name	OJ990605_30.0419.C19.o1.np	Method	AAT/NAP
Start	1121	End	2107
GI	6907086	Score	1093
Exons	1121..1878, 1936..2107		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	53721	Seq. ID	OJ990605_30.0419.C20
Gene No.	112982	Strand	-
Start	56	End	140
Name	OJ990605_30.0419.C20.o1.gs	Method	GENSCAN
Start	56	End	140
GI	none	Score	.57
Exons	56..140		

Seq. No.	53722	Seq. ID	OJ990605_30.0419.C22
Gene No.	112983	Strand	+
Start	1	End	1098
Name	OJ990605_30.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	1098
GI	7339719	Score	121
Exons	1..37, 411..500, 976..1098		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	53722	Seq. ID	OJ990605_30.0419.C22
Gene No.	112983	Strand	+
Start	1	End	1098
Name	OJ990605_30.0419.C22.o1.gs	Method	GENSCAN
Start	465	End	921
GI	none	Score	.73
Exons	465..921		

Seq. No.	53723	Seq. ID	OJ990605_30.0419.C23
Gene No.	112984	Strand	+
Start	852	End	1101
Name	OJ990605_30.0419.C23.o1.gp	Method	AAT/GAP
Start	852	End	1101
GI	LIB3474-008-P1-K1-G7	Score	473
Exons	852..1101		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	53723	Seq. ID	OJ990605_30.0419.C23
Gene No.	112985	Strand	-
Start	1	End	1511
Name	OJ990605_30.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	1511
GI	5734747	Score	177
Exons	1..167, 850..953, 1038..1099, 1417..1511		
GI Descrip.	(AC007651) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53723	Seq. ID	OJ990605_30.0419.C23
Gene No.	112985	Strand	-
Start	1	End	1511
Name	OJ990605_30.0419.C23.o1.ts	Method	TBLASTX:Soybean
Start	41	End	1102
GI	none	Score	60
Exons	41..160, 54..170, 57..137, 58..162, 92..163, 841..1080, 845..1102, 854..1102		

Seq. No.	53723	Seq. ID	OJ990605_30.0419.C23
Gene No.	112985	Strand	-
Start	1	End	1511
Name	OJ990605_30.0419.C23.o1.gs	Method	GENSCAN
Start	44	End	1146
GI	none	Score	.42
Exons	44..167, 850..1146		

Seq. No.	53723	Seq. ID	OJ990605_30.0419.C23
Gene No.	112985	Strand	-
Start	1	End	1511
Name	OJ990605_30.0419.C23.o1.tm	Method	TBLASTX:Maize
Start	44	End	1102
GI	none	Score	189
Exons	44..160, 48..170, 49..168, 841..1011, 844..1005, 851..1012, 994..1080, 1010..1102, 1010..1102		

Seq. No.	53724	Seq. ID	OJ990605_30.0419.C26
Gene No.	112986	Strand	+
Start	125	End	667
Name	OJ990605_30.0419.C26.o1.gp	Method	AAT/GAP

Start	125	End	667
GI	none	Score	926
Exons	125..667		

Seq. No.	53724	Seq. ID	OJ990605_30.0419.C26
Gene No.	112986	Strand	+
Start	125	End	667
Name	OJ990605_30.0419.C26.o1.gs	Method	GENSCAN
Start	159	End	252
GI	none	Score	.77
Exons	159..252		

Seq. No.	53725	Seq. ID	OJ990605_30.0419.C28
Gene No.	112987	Strand	-
Start	654	End	773
Name	OJ990605_30.0419.C28.o1.gs	Method	GENSCAN
Start	654	End	773
GI	none	Score	.66
Exons	654..773		

Seq. No.	53726	Seq. ID	OJ990605_30.0419.C29
Gene No.	112988	Strand	-
Start	353	End	437
Name	OJ990605_30.0419.C29.o1.gs	Method	GENSCAN
Start	353	End	437
GI	none	Score	.94
Exons	353..437		

Seq. No.	53727	Seq. ID	OJ990605_30.0419.C30
Gene No.	112989	Strand	+
Start	181	End	1973
Name	OJ990605_30.0419.C30.o1.gp	Method	AAT/GAP
Start	181	End	1197
GI	uC-osf1M202014g11b1	Score	906
Exons	181..599, 1128..1197		
GI Descrip.	'2632252/emb|CAA73067| 1.0e-44 (Y12464) serine/threonine kinase [Sorghum bicolor]'		

Seq. No.	53727	Seq. ID	OJ990605_30.0419.C30
Gene No.	112989	Strand	+
Start	181	End	1973
Name	OJ990605_30.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	263	End	1863
GI	none	Score	121
Exons	263..349, 307..345, 429..614, 483..542, 497..613, 1125..1193, 1125..1193, 1783..1863, 1785..1856		

Seq. No.	53727	Seq. ID	OJ990605_30.0419.C30
Gene No.	112989	Strand	+
Start	181	End	1973
Name	OJ990605_30.0419.C30.o1.gs	Method	GENSCAN
Start	429	End	1857
GI	none	Score	.83
Exons	429..599, 1128..1190, 1786..1857		

Seq. No.	53727	Seq. ID	OJ990605_30.0419.C30
Gene No.	112989	Strand	+

Start	181	End	1973
Name	OJ990605_30.0419.C30.o1.np	Method	AAT/NAP
Start	429	End	1973
GI	7446372	Score	309
Exons	429..599, 1128..1190, 1786..1861, 1949..1973		
GI Descrip.	probable serine/threonine kinase (EC 2.7.1.-) SNFL2 - sorghum gi|2632254|emb|CAA73068.1| (Y12465) serine/threonine kinase [Sorghum bicolor]		

Seq. No.	53727	Seq. ID	OJ990605_30.0419.C30
Gene No.	112989	Strand	+
Start	181	End	1973
Name	OJ990605_30.0419.C30.o1.tc	Method	TBLASTX:Cress
Start	447	End	1865
GI	none	Score	208
Exons	447..614, 500..604, 1125..1193, 1783..1863, 1785..1865		

Seq. No.	53727	Seq. ID	OJ990605_30.0419.C30
Gene No.	112989	Strand	+
Start	181	End	1973
Name	OJ990605_30.0419.C30.o1.ts	Method	TBLASTX:Soybean
Start	447	End	1857
GI	none	Score	219
Exons	447..614, 449..595, 1124..1192, 1125..1193, 1783..1857, 1785..1856		

Seq. No.	53727	Seq. ID	OJ990605_30.0419.C30
Gene No.	112989	Strand	+
Start	181	End	1973
Name	OJ990605_30.0419.C30.o1.tw	Method	TBLASTX:Wheat
Start	447	End	1181
GI	none	Score	178
Exons	447..614, 497..574, 1124..1180, 1125..1181		

Seq. No.	53728	Seq. ID	OJ990605_30.0419.C31
Gene No.	112990	Strand	+
Start	1	End	2424
Name	OJ990605_30.0419.C31.o1.np	Method	AAT/NAP
Start	1	End	1996
GI	6715641	Score	665
Exons	1..90, 324..404, 532..661, 750..841, 928..1047, 1144..1251, 1370..1486, 1576..1632, 1751..1837, 1922..1996		
GI Descrip.	(AC007323) T25K16.13 [Arabidopsis thaliana]		

Seq. No.	53728	Seq. ID	OJ990605_30.0419.C31
Gene No.	112990	Strand	+
Start	1	End	2424
Name	OJ990605_30.0419.C31.o2.ts	Method	TBLASTX:Soybean
Start	305	End	846
GI	none	Score	104
Exons	305..406, 306..407, 520..660, 522..656, 745..846, 749..841		

Seq. No.	53728	Seq. ID	OJ990605_30.0419.C31
Gene No.	112990	Strand	+
Start	1	End	2424
Name	OJ990605_30.0419.C31.o1.tc	Method	TBLASTX:Cress
Start	306	End	846

GI	none	Score	110
Exons	306..413, 350..406, 529..660, 543..641, 739..846, 749..841		

Seq. No.	53728	Seq. ID	OJ990605_30.0419.C31
Gene No.	112990	Strand	+
Start	1	End	2424
Name	OJ990605_30.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	345	End	1631
GI	none	Score	109
Exons	345..407, 350..406, 524..658, 524..655, 529..660, 531..656, 745..846, 749..832, 927..1049, 928..1047, 942..1049, 1135..1251, 1158..1247, 1349..1486, 1369..1488, 1370..1489, 1570..1629, 1573..1629, 1575..1631		

Seq. No.	53728	Seq. ID	OJ990605_30.0419.C31
Gene No.	112990	Strand	+
Start	1	End	2424
Name	OJ990605_30.0419.C31.o1.gp	Method	AAT/GAP
Start	351	End	966
GI	2443084	Score	518
Exons	351..404, 532..657, 752..841, 928..966		
GI Descrip.	2632252/emb|CAA73067| 1.0e-44 (Y12464) serine/threonine kinase [Sorghum bicolor]		

Seq. No.	53728	Seq. ID	OJ990605_30.0419.C31
Gene No.	112990	Strand	+
Start	1	End	2424
Name	OJ990605_30.0419.C31.o1.gs	Method	GENSCAN
Start	351	End	2424
GI	none	Score	.73
Exons	351..404, 532..657, 928..1047, 1135..1251, 1367..1486, 1751..2010, 2352..2424		

Seq. No.	53728	Seq. ID	OJ990605_30.0419.C31
Gene No.	112990	Strand	+
Start	1	End	2424
Name	OJ990605_30.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	928	End	1831
GI	none	Score	71
Exons	928..993, 1003..1044, 1135..1248, 1162..1248, 1366..1485, 1367..1489, 1570..1632, 1573..1641, 1578..1634, 1746..1781, 1748..1831, 1750..1818		

Seq. No.	53728	Seq. ID	OJ990605_30.0419.C31
Gene No.	112990	Strand	+
Start	1	End	2424
Name	OJ990605_30.0419.C31.o1.tw	Method	TBLASTX:Wheat
Start	1171	End	2022
GI	none	Score	117
Exons	1171..1251, 1179..1253, 1179..1247, 1352..1486, 1368..1484, 1369..1485, 1372..1491, 1373..1489, 1570..1632, 1573..1641, 1575..1634, 1732..1821, 1746..1820, 1748..1825, 1750..1824, 1865..2020, 1882..2022, 1924..2022		

Seq. No.	53728	Seq. ID	OJ990605_30.0419.C31
Gene No.	112990	Strand	+
Start	1	End	2424

Name	OJ990605_30.0419.C31.o2.gp	Method	AAT/GAP
Start	1345	End	2211
GI	LIB3434-019-P1-K1-D7	Score	984
Exons	1345..1486, 1576..1632, 1751..1825, 1922..2211		
GI Descrip.	'2632252/emb|CAA73067| 9.0e-31 (Y12464) serine/threonine kinase [Sorghum bicolor]'		

Seq. No.	53728	Seq. ID	OJ990605_30.0419.C31
Gene No.	112990	Strand	+
Start	1	End	2424
Name	OJ990605_30.0419.C31.o2.tc	Method	TBLASTX:Cress
Start	1369	End	1966
GI	none	Score	101
Exons	1369..1485, 1394..1489, 1573..1641, 1578..1634, 1748..1825, 1750..1824, 1922..1966		

Seq. No.	53728	Seq. ID	OJ990605_30.0419.C31
Gene No.	112990	Strand	+
Start	1	End	2424
Name	OJ990605_30.0419.C31.o2.tm	Method	TBLASTX:Maize
Start	1744	End	2028
GI	none	Score	77
Exons	1744..1821, 1746..1820, 1748..1831, 1750..1824, 1907..2020, 1919..2020, 1921..2028, 1921..2022		

Seq. No.	53729	Seq. ID	OJ990605_30.0419.C32
Gene No.	112991	Strand	+
Start	1	End	254
Name	OJ990605_30.0419.C32.o1.np	Method	AAT/NAP
Start	1	End	254
GI	6742729	Score	265
Exons	1..254		
GI Descrip.	(AF121139) RIM2 protein [Oryza sativa]		

Seq. No.	53730	Seq. ID	OJ990605_30.0419.C35
Gene No.	112992	Strand	+
Start	181	End	550
Name	OJ990605_30.0419.C35.o1.gp	Method	AAT/GAP
Start	181	End	550
GI	718_3.R1084	Score	691
Exons	181..550		
GI Descrip.	'548605/sp|P36886|PSAK_HORVU 6.0e-63 PHOTOSYSTEM I REACTION CENTRE SUBUNIT X PRECURSOR (LIGHT-HARVESTING COMPLEX I 7 KD PROTEIN) (PSI-K) >gi_539055_pir__A48527 photosystem I protein psaK precursor - barley >gi_304220 (L12707) photosystem I PSI-K subunit [Hordeum vulgare]'		

Seq. No.	53730	Seq. ID	OJ990605_30.0419.C35
Gene No.	112993	Strand	-
Start	434	End	561
Name	OJ990605_30.0419.C35.o1.gs	Method	GENSCAN
Start	434	End	556
GI	none	Score	.97
Exons	434..556		

Seq. No.	53730	Seq. ID	OJ990605_30.0419.C35
Gene No.	112993	Strand	-

Start	434	End	561
Name	OJ990605_30.0419.C35.o1.np	Method	AAT/NAP
Start	437	End	550
GI	548605	Score	152
Exons	437..550		
GI Descrip.	PHOTOSYSTEM I REACTION CENTRE SUBUNIT X PRECURSOR (LIGHT-HARVESTING COMPLEX I 7 KD PROTEIN) (PSI-K) gi|539055|pir||A48527 photosystem I protein psaK precursor - barley gi|304220 (L12707) photosystem I PSI-K subunit [Hordeum vulgare]		

Seq. No.	53730	Seq. ID	OJ990605_30.0419.C35
Gene No.	112993	Strand	-
Start	434	End	561
Name	OJ990605_30.0419.C35.o1.tm	Method	TBLASTX:Maize
Start	437	End	561
GI	none	Score	62
Exons	437..550, 510..551, 520..561		

Seq. No.	53731	Seq. ID	OJ990605_30.0419.C36
Gene No.	112994	Strand	-
Start	436	End	545
Name	OJ990605_30.0419.C36.o1.gs	Method	GENSCAN
Start	436	End	545
GI	none	Score	.76
Exons	436..545		

Seq. No.	53732	Seq. ID	OJ990605_30.0419.C37
Gene No.	112995	Strand	+
Start	370	End	396
Name	OJ990605_30.0419.C37.o1.gs	Method	GENSCAN
Start	370	End	396
GI	none	Score	.71
Exons	370..396		

Seq. No.	53733	Seq. ID	OJ990605_30.0419.C38
Gene No.	112996	Strand	+
Start	896	End	995
Name	OJ990605_30.0419.C38.o1.gp	Method	AAT/GAP
Start	896	End	995
GI	LIB3477-003-P1-K1-E9	Score	113
Exons	896..995		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	53734	Seq. ID	OJ990605_30.0419.C41
Gene No.	112997	Strand	+
Start	628	End	1891
Name	OJ990605_30.0419.C41.o1.np	Method	AAT/NAP
Start	628	End	1891
GI	4996648	Score	48
Exons	628..732, 1761..1891		
GI Descrip.	(AB028133) Dof zinc finger protein [Oryza sativa]		

Seq. No.	53734	Seq. ID	OJ990605_30.0419.C41
Gene No.	112998	Strand	-

Start	922	End	1982
Name	OJ990605_30.0419.C41.o1.gs	Method	GENSCAN
Start	922	End	1982
GI	none	Score	.74
Exons	922..1006, 1447..1626, 1820..1982		

Seq. No.	53735	Seq. ID	OJ990605_30.0419.C42
Gene No.	112999	Strand	+
Start	526	End	1330
Name	OJ990605_30.0419.C42.o1.gs	Method	GENSCAN
Start	526	End	1038
GI	none	Score	.48
Exons	526..1038		

Seq. No.	53735	Seq. ID	OJ990605_30.0419.C42
Gene No.	112999	Strand	+
Start	526	End	1330
Name	OJ990605_30.0419.C42.o1.np	Method	AAT/NAP
Start	526	End	1330
GI	4680203	Score	743
Exons	526..1330		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	53735	Seq. ID	OJ990605_30.0419.C42
Gene No.	112999	Strand	+
Start	526	End	1330
Name	OJ990605_30.0419.C42.o1.tw	Method	TBLASTX:Wheat
Start	851	End	1220
GI	none	Score	38
Exons	851..970, 872..973, 883..984, 967..1218, 975..1217, 978..1220		

Seq. No.	53735	Seq. ID	OJ990605_30.0419.C42
Gene No.	112999	Strand	+
Start	526	End	1330
Name	OJ990605_30.0419.C42.o1.ts	Method	TBLASTX:Soybean
Start	1000	End	1238
GI	none	Score	225
Exons	1000..1218, 1038..1238		

Seq. No.	53736	Seq. ID	OJ990605_30.0419.C43
Gene No.	113000	Strand	-
Start	1123	End	1266
Name	OJ990605_30.0419.C43.o1.gs	Method	GENSCAN
Start	1123	End	1266
GI	none	Score	.59
Exons	1123..1266		

Seq. No.	53737	Seq. ID	OJ990605_30.0419.C44
Gene No.	113001	Strand	+
Start	318	End	683
Name	OJ990605_30.0419.C44.o1.gs	Method	GENSCAN
Start	318	End	683
GI	none	Score	.79
Exons	318..437, 579..683		

Seq. No.	53738	Seq. ID	OJ990605_30.0419.C47
Gene No.	113002	Strand	+

Start	500	End	1353
Name	OJ990605_30.0419.C47.o1.gs	Method	GENSCAN
Start	500	End	1353
GI	none	Score	.95
Exons	500..613, 1316..1353		

Seq. No.	53739	Seq. ID	OJ990605_30.0419.C51
Gene No.	113003	Strand	-
Start	1	End	1236
Name	OJ990605_30.0419.C51.o1.np	Method	AAT/NAP
Start	1	End	1236
GI	5734747	Score	528
Exons	1..84, 424..1236		
GI Descrip.	(AC007651) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53739	Seq. ID	OJ990605_30.0419.C51
Gene No.	113003	Strand	-
Start	1	End	1236
Name	OJ990605_30.0419.C51.o1.gs	Method	GENSCAN
Start	332	End	1167
GI	none	Score	.73
Exons	332..515, 650..1167		

Seq. No.	53739	Seq. ID	OJ990605_30.0419.C51
Gene No.	113003	Strand	-
Start	1	End	1236
Name	OJ990605_30.0419.C51.o1.tw	Method	TBLASTX:Wheat
Start	426	End	875
GI	none	Score	79
Exons	426..542, 446..535, 544..864, 572..841, 621..875, 698..871		

Seq. No.	53739	Seq. ID	OJ990605_30.0419.C51
Gene No.	113003	Strand	-
Start	1	End	1236
Name	OJ990605_30.0419.C51.o1.ts	Method	TBLASTX:Soybean
Start	483	End	1017
GI	none	Score	50
Exons	483..536, 568..597, 569..598, 605..676, 616..699, 616..699, 700..1017, 702..926, 703..1017		

Seq. No.	53739	Seq. ID	OJ990605_30.0419.C51
Gene No.	113003	Strand	-
Start	1	End	1236
Name	OJ990605_30.0419.C51.o1.tm	Method	TBLASTX:Maize
Start	507	End	1109
GI	none	Score	41
Exons	507..545, 564..926, 564..851, 568..993, 568..990, 924..998, 979..1107, 984..1109, 985..1107, 998..1108		

Seq. No.	53740	Seq. ID	OJ990605_30.0419.C52
Gene No.	113004	Strand	-
Start	730	End	1655
Name	OJ990605_30.0419.C52.o1.gp	Method	AAT/GAP
Start	512	End	1414
GI	1211_2.R1084	Score	623
Exons	512..789, 880..946, 1392..1414		
GI Descrip.	'5106775/gb|AAD39838.1|AF067732_1 2.0e-67 (AF067732) ribosomal		

protein S12 [Hordeum vulgare]'

Seq. No.	53740	Seq. ID	OJ990605_30.0419.C52
Gene No.	113004	Strand	-
Start	730	End	1655
Name	OJ990605_30.0419.C52.o1.ts	Method	TBLASTX:Soybean
Start	602	End	946
GI	none	Score	57
Exons	602..685, 602..670, 696..791, 878..946, 880..945	721..798, 722..832, 729..800,	

Seq. No.	53740	Seq. ID	OJ990605_30.0419.C52
Gene No.	113004	Strand	-
Start	730	End	1655
Name	OJ990605_30.0419.C52.o1.gs	Method	GENSCAN
Start	730	End	945
GI	none	Score	.74
Exons	730..789, 880..945		

Seq. No.	53740	Seq. ID	OJ990605_30.0419.C52
Gene No.	113004	Strand	-
Start	730	End	1655
Name	OJ990605_30.0419.C52.o1.np	Method	AAT/NAP
Start	733	End	1655
GI	5106775	Score	136
Exons	733..789, 880..945, 1580..1655		
GI Descrip.	(AF067732) ribosomal protein S12 [Hordeum vulgare]		

Seq. No.	53741	Seq. ID	OJ990605_30.0419.C54
Gene No.	113005	Strand	-
Start	176	End	528
Name	OJ990605_30.0419.C54.o1.gs	Method	GENSCAN
Start	176	End	528
GI	none	Score	.93
Exons	176..402, 427..528		

Seq. No.	53742	Seq. ID	OJ990605_30.0419.C55
Gene No.	113006	Strand	+
Start	1	End	732
Name	OJ990605_30.0419.C55.o1.np	Method	AAT/NAP
Start	1	End	732
GI	5734747	Score	277
Exons	1..732		
GI Descrip.	(AC007651) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53742	Seq. ID	OJ990605_30.0419.C55
Gene No.	113006	Strand	+
Start	1	End	732
Name	OJ990605_30.0419.C55.o1.gs	Method	GENSCAN
Start	51	End	398
GI	none	Score	.58
Exons	51..183, 268..398		

Seq. No.	53742	Seq. ID	OJ990605_30.0419.C55
Gene No.	113006	Strand	+
Start	1	End	732
Name	OJ990605_30.0419.C55.o2.tm	Method	TBLASTX:Maize

Start	74	End	265
GI	none	Score	204
Exons	74..265, 78..260, 79..261		

Seq. No.	53742	Seq. ID	OJ990605_30.0419.C55
Gene No.	113006	Strand	+
Start	1	End	732
Name	OJ990605_30.0419.C55.o1.tm	Method	TBLASTX:Maize
Start	351	End	724
GI	none	Score	350
Exons	351..722, 353..673, 355..705, 521..724		

Seq. No.	53743	Seq. ID	OJ990605_30.0419.C56
Gene No.	113007	Strand	+
Start	241	End	456
Name	OJ990605_30.0419.C56.o1.gs	Method	GENSCAN
Start	241	End	456
GI	none	Score	.85
Exons	241..321, 352..456		

Seq. No.	53744	Seq. ID	OJ990605_30.0419.C58
Gene No.	113008	Strand	+
Start	1	End	620
Name	OJ990605_30.0419.C58.o1.np	Method	AAT/NAP
Start	1	End	591
GI	6630685	Score	982
Exons	1..591		
GI Descrip.	(AP000969) Similar to copia-type pol polyprotein. (AF105716) [Oryza sativa]		

Seq. No.	53744	Seq. ID	OJ990605_30.0419.C58
Gene No.	113008	Strand	+
Start	1	End	620
Name	OJ990605_30.0419.C58.o1.tm	Method	TBLASTX:Maize
Start	3	End	620
GI	none	Score	863
Exons	3..608, 4..612, 408..620, 509..610		

Seq. No.	53744	Seq. ID	OJ990605_30.0419.C58
Gene No.	113008	Strand	+
Start	1	End	620
Name	OJ990605_30.0419.C58.o1.ts	Method	TBLASTX:Soybean
Start	31	End	576
GI	none	Score	250
Exons	31..324, 124..318, 159..323, 336..449, 343..576		

Seq. No.	53744	Seq. ID	OJ990605_30.0419.C58
Gene No.	113008	Strand	+
Start	1	End	620
Name	OJ990605_30.0419.C58.o1.gs	Method	GENSCAN
Start	43	End	594
GI	none	Score	.91
Exons	43..594		

Seq. No.	53744	Seq. ID	OJ990605_30.0419.C58
Gene No.	113008	Strand	+
Start	1	End	620

Name	OJ990605_30.0419.C58.o1.tw	Method	TBLASTX:Wheat
Start	73	End	540
GI	none	Score	122
Exons	73..333, 228..308, 352..540, 358..525		

Seq. No.	53744	Seq. ID	OJ990605_30.0419.C58
Gene No.	113008	Strand	+
Start	1	End	620
Name	OJ990605_30.0419.C58.o1.tc	Method	TBLASTX:Cress
Start	118	End	573
GI	none	Score	62
Exons	118..204, 208..342, 354..521, 361..573		

Seq. No.	53745	Seq. ID	OJ990605_30.0419.C59
Gene No.	113009	Strand	-
Start	319	End	1651
Name	OJ990605_30.0419.C59.o1.gp	Method	AAT/GAP
Start	319	End	1170
GI	20787_1.R1084	Score	1171
Exons	319..826, 1056..1170		
GI Descrip.	'4263507/gb|AAD15333| 1.0e-12 (AC004044) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	53745	Seq. ID	OJ990605_30.0419.C59
Gene No.	113009	Strand	-
Start	319	End	1651
Name	OJ990605_30.0419.C59.o1.tm	Method	TBLASTX:Maize
Start	412	End	1649
GI	none	Score	122
Exons	412..606, 446..595, 447..614, 499..657, 580..819, 580..819, 590..829, 590..829, 1046..1237, 1053..1355, 1056..1310, 1057..1335, 1418..1648, 1419..1649		

Seq. No.	53745	Seq. ID	OJ990605_30.0419.C59
Gene No.	113009	Strand	-
Start	319	End	1651
Name	OJ990605_30.0419.C59.o1.gs	Method	GENSCAN
Start	446	End	1477
GI	none	Score	.82
Exons	446..826, 1056..1311, 1419..1477		

Seq. No.	53745	Seq. ID	OJ990605_30.0419.C59
Gene No.	113009	Strand	-
Start	319	End	1651
Name	OJ990605_30.0419.C59.o1.ts	Method	TBLASTX:Soybean
Start	506	End	1648
GI	none	Score	77
Exons	506..850, 672..791, 1054..1170, 1056..1310, 1056..1313, 1075..1314, 1418..1486, 1425..1475, 1490..1612, 1493..1648, 1494..1646		

Seq. No.	53745	Seq. ID	OJ990605_30.0419.C59
Gene No.	113009	Strand	-
Start	319	End	1651
Name	OJ990605_30.0419.C59.o1.np	Method	AAT/NAP
Start	596	End	1651
GI	2961357	Score	298

Exons	596..826, 1056..1311, 1419..1651		
GI Descrip.	(AL022140) putative protein [Arabidopsis thaliana]		
Seq. No.	53745	Seq. ID	OJ990605_30.0419.C59
Gene No.	113009	Strand	-
Start	319	End	1651
Name	OJ990605_30.0419.C59.o1.tc	Method	TBLASTX:Cress
Start	785	End	1561
GI	none	Score	229
Exons	785..850, 1056..1361, 1057..1362, 1418..1486, 1493..1561		
Seq. No.	53745	Seq. ID	OJ990605_30.0419.C59
Gene No.	113009	Strand	-
Start	319	End	1651
Name	OJ990605_30.0419.C59.o2.gp	Method	AAT/GAP
Start	1142	End	1651
GI	21128_1.R1084	Score	686
Exons	1142..1311, 1419..1651		
GI Descrip.	'3924615 3.0e-21 (AF069442) hypothetical protein [Arabidopsis thaliana]'		
Seq. No.	53746	Seq. ID	OJ990605_30.0419.C61
Gene No.	113010	Strand	+
Start	172	End	249
Name	OJ990605_30.0419.C61.o1.np	Method	AAT/NAP
Start	172	End	249
GI	6630699	Score	91
Exons	172..249		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		
Seq. No.	53746	Seq. ID	OJ990605_30.0419.C61
Gene No.	113011	Strand	+
Start	385	End	623
Name	OJ990605_30.0419.C61.o2.np	Method	AAT/NAP
Start	385	End	623
GI	6539570	Score	121
Exons	385..623		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		
Seq. No.	53746	Seq. ID	OJ990605_30.0419.C61
Gene No.	113012	Strand	-
Start	385	End	500
Name	OJ990605_30.0419.C61.o1.gs	Method	GENSCAN
Start	385	End	500
GI	none	Score	.86
Exons	385..500		
Seq. No.	53747	Seq. ID	OJ990605_30.0419.C62
Gene No.	113013	Strand	+
Start	532	End	672
Name	OJ990605_30.0419.C62.o1.gp	Method	AAT/GAP
Start	532	End	672
GI	LIB3474-008-P1-K1-G7	Score	258
Exons	532..672		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450		

[Arabidopsis thaliana]'

Seq. No.	53747	Seq. ID	OJ990605_30.0419.C62
Gene No.	113014	Strand	+
Start	587	End	672
Name	OJ990605_30.0419.C62.o1.gs	Method	GENSCAN
Start	587	End	672
GI	none	Score	.91
Exons	587..672		

Seq. No.	53748	Seq. ID	OJ990605_30.0419.C64
Gene No.	113015	Strand	+
Start	167	End	1535
Name	OJ990605_30.0419.C64.o1.gs	Method	GENSCAN
Start	167	End	1535
GI	none	Score	.65
Exons	167..197, 289..408, 1057..1239, 1482..1535		

Seq. No.	53749	Seq. ID	OJ990605_30.0419.C65
Gene No.	113016	Strand	+
Start	181	End	235
Name	OJ990605_30.0419.C65.o1.gs	Method	GENSCAN
Start	181	End	235
GI	none	Score	.55
Exons	181..235		

Seq. No.	53750	Seq. ID	OJ990715_11.0419.C1
Gene No.	113017	Strand	-
Start	1	End	655
Name	OJ990715_11.0419.C1.o1.np	Method	AAT/NAP
Start	1	End	550
GI	3643271	Score	378
Exons	1..41, 88..550		
GI Descrip.	(AF090872) 33 kDa secretory protein [Oryza sativa] gi|3851590 (AF093570) 33 kDa secretory protein [Oryza sativa] gi|4249681 (AF097724) 33 kDa secretory protein [Oryza sativa]		

Seq. No.	53750	Seq. ID	OJ990715_11.0419.C1
Gene No.	113017	Strand	-
Start	1	End	655
Name	OJ990715_11.0419.C1.o1.gs	Method	GENSCAN
Start	180	End	568
GI	none	Score	.76
Exons	180..568		

Seq. No.	53750	Seq. ID	OJ990715_11.0419.C1
Gene No.	113017	Strand	-
Start	1	End	655
Name	OJ990715_11.0419.C1.o1.gp	Method	AAT/GAP
Start	397	End	655
GI	2310144	Score	514
Exons	397..655		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113018	Strand	+
Start	4843	End	6023
Name	OJ990715_11.0419.C2.o2.np	Method	AAT/NAP

Start	4843	End	5860
GI	3643271	Score	891
Exons	4843..5212, 5407..5860		
GI Descrip.	(AF090872) 33 kDa secretory protein [Oryza sativa] gi|3851590 (AF093570) 33 kDa secretory protein [Oryza sativa] gi|4249681 (AF097724) 33 kDa secretory protein [Oryza sativa]		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113018	Strand	+
Start	4843	End	6023
Name	OJ990715_11.0419.C2.o3.gs	Method	GENSCAN
Start	4843	End	5863
GI	none	Score	.77
Exons	4843..4922, 5407..5863		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113018	Strand	+
Start	4843	End	6023
Name	OJ990715_11.0419.C2.o3.gp	Method	AAT/GAP
Start	5624	End	6023
GI	3761071	Score	696
Exons	5624..6023		
GI Descrip.	3643271 9.0e-30 (AF090872) 33 kDa secretory protein [Oryza sativa] >gi_3851590 (AF093570) 33 kDa secretory protein [Oryza sativa] >gi_4249681 (AF097724) 33 kDa secretory protein [Oryza sativa]		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113019	Strand	+
Start	6409	End	7796
Name	OJ990715_11.0419.C2.o4.gs	Method	GENSCAN
Start	6409	End	7796
GI	none	Score	.65
Exons	6409..6574, 7663..7796		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113020	Strand	+
Start	10884	End	11674
Name	OJ990715_11.0419.C2.o5.gs	Method	GENSCAN
Start	10884	End	11674
GI	none	Score	.56
Exons	10884..10926, 11005..11219, 11234..11674		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113021	Strand	+
Start	15702	End	17511
Name	OJ990715_11.0419.C2.o4.gp	Method	AAT/GAP
Start	15702	End	17511
GI	2431246	Score	584
Exons	15702..15956, 17427..17511		
GI Descrip.	5852170/emb|AL117265.1|OST17804 1.0e-44 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113022	Strand	+
Start	17465	End	21626
Name	OJ990715_11.0419.C2.o7.gs	Method	GENSCAN

Start	17465	End	21306
GI	none	Score	.93
Exons	17465..17653, 18223..18288, 18452..18574, 20057..20128, 20473..20569, 20835..20898, 21237..21306		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113022	Strand	+
Start	17465	End	21626
Name	OJ990715_11.0419.C2.o6.np	Method	AAT/NAP
Start	17477	End	21294
GI	4567095	Score	1027
Exons	17477..17653, 18223..18288, 18452..18574, 19252..19332, 19412..19505, 19721..19796, 19880..19959, 20057..20128, 20251..20310, 20473..20569, 20835..20898, 21001..21060, 21237..21294		
GI Descrip.	(AF129516) fertilization-independent endosperm protein [Arabidopsis thaliana]		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113022	Strand	+
Start	17465	End	21626
Name	OJ990715_11.0419.C2.o5.gp	Method	AAT/GAP
Start	17606	End	19498
GI	2310633	Score	715
Exons	17606..17653, 18223..18288, 18452..18574, 19252..19332, 19412..19498		
GI Descrip.	4567095/gb|AAD23584.1| 1.0e-41 (AF129516) fertilization-independent endosperm protein [Arabidopsis thaliana]		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113022	Strand	+
Start	17465	End	21626
Name	OJ990715_11.0419.C2.o6.gp	Method	AAT/GAP
Start	20348	End	21626
GI	14513_1.R1084	Score	1386
Exons	20348..20569, 20835..20898, 21001..21060, 21237..21626		
GI Descrip.	'4567095/gb|AAD23584.1| 8.0e-33 (AF129516) fertilization-independent endosperm protein [Arabidopsis thaliana]'		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113023	Strand	+
Start	22532	End	31895
Name	OJ990715_11.0419.C2.o8.gs	Method	GENSCAN
Start	22532	End	31552
GI	none	Score	.83
Exons	22532..22605, 22640..22641, 23189..23382, 24626..24799, 24886..24959, 25549..25629, 26008..26068, 26139..26188, 26980..27034, 27301..27378, 28405..28458, 28548..28608, 28931..28982, 29823..29889, 30098..30157, 30251..30313, 31042..31106, 31447..31552		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113023	Strand	+
Start	22532	End	31895
Name	OJ990715_11.0419.C2.o7.gp	Method	AAT/GAP

Start	22951	End	26049
GI	7900_1.R1084	Score	978
Exons	22951..23093, 23189..23280, 24626..24799, 24886..24959, 25549..25629, 26008..26049		
GI Descrip.	'4757718/ref|NP_004292.1|pACTL6| 4.0e-24 actin-like 6 >gi_4001803 (AF041474) BAF53a [Homo sapiens] >gi_4218064_dbj_BAA74577_ (AB015907) actin-related protein [Homo sapiens]'		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113023	Strand	+
Start	22532	End	31895
Name	OJ990715_11.0419.C2.o7.np	Method	AAT/NAP
Start	24699	End	31521
GI	6714302	Score	926
Exons	24699..24799, 24886..24959, 25549..25646, 25941..26188, 26980..27095, 27285..27378, 27459..27512, 28405..28458, 28548..28608, 28931..28982, 29823..29889, 30098..30157, 30251..30313, 30457..30519, 31042..31106, 31325..31393, 31479..31521		
GI Descrip.	(AC013354) F15H18.8 [Arabidopsis thaliana]		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113023	Strand	+
Start	22532	End	31895
Name	OJ990715_11.0419.C2.o8.gp	Method	AAT/GAP
Start	30076	End	31895
GI	2837_1.R1084	Score	1364
Exons	30076..30157, 30251..30313, 30457..30519, 31042..31106, 31325..31393, 31479..31895		
GI Descrip.	'4001805 5.0e-18 (AF041476) BAF53a [Mus musculus]'		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113024	Strand	+
Start	34247	End	38845
Name	OJ990715_11.0419.C2.o9.gs	Method	GENSCAN
Start	34247	End	38845
GI	none	Score	.84
Exons	34247..34287, 34508..34793, 35501..35566, 35771..35893, 36469..36561, 36807..36882, 36959..37038, 37137..37208, 37641..37700, 37881..37977, 38646..38845		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113024	Strand	+
Start	34247	End	38845
Name	OJ990715_11.0419.C2.o8.np	Method	AAT/NAP
Start	34617	End	38703
GI	4567095	Score	980
Exons	34617..34793, 35501..35566, 35771..35893, 36309..36389, 36469..36561, 36807..36882, 36959..37038, 37137..37208, 37641..37700, 37881..37977, 38202..38265, 38410..38469, 38646..38703		
GI Descrip.	(AF129516) fertilization-independent endosperm protein [Arabidopsis thaliana]		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113025	Strand	+

Start	40378	End	41986
Name	OJ990715_11.0419.C2.o9.np	Method	AAT/NAP
Start	40378	End	41986
GI	4680186	Score	191
Exons	40378..40401, 41750..41986		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113026	Strand	-
Start	1765	End	3050
Name	OJ990715_11.0419.C2.o1.gp	Method	AAT/GAP
Start	1493	End	3050
GI	887_1.R1084	Score	2241
Exons	1493..2218, 2591..3050		
GI Descrip.	'3643271 1.0e-126 (AF090872) 33 kDa secretory protein [Oryza sativa] >gi_3851590 (AF093570) 33 kDa secretory protein [Oryza sativa] >gi_4249681 (AF097724) 33 kDa secretory protein [Oryza sativa]'		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113026	Strand	-
Start	1765	End	3050
Name	OJ990715_11.0419.C2.o2.gs	Method	GENSCAN
Start	1765	End	2961
GI	none	Score	.73
Exons	1765..2218, 2591..2797, 2882..2961		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113026	Strand	-
Start	1765	End	3050
Name	OJ990715_11.0419.C2.o1.np	Method	AAT/NAP
Start	1768	End	2961
GI	3643271	Score	1349
Exons	1768..2218, 2591..2961		
GI Descrip.	(AF090872) 33 kDa secretory protein [Oryza sativa] gi|3851590 (AF093570) 33 kDa secretory protein [Oryza sativa] gi|4249681 (AF097724) 33 kDa secretory protein [Oryza sativa]		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113027	Strand	-
Start	10905	End	11621
Name	OJ990715_11.0419.C2.o3.np	Method	AAT/NAP
Start	10905	End	11621
GI	7488294	Score	149
Exons	10905..11621		
GI Descrip.	reticuline oxidase homolog F21C20.170 - Arabidopsis thaliana gi|5262222|emb|CAB45848.1| (AL080254) reticuline oxidase-like protein [Arabidopsis thaliana] gi|7268878|emb|CAB79082.1| (AL161553) reticuline oxidase-like protein [Arabidopsis thaliana]		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113028	Strand	-
Start	11601	End	15898
Name	OJ990715_11.0419.C2.o5.np	Method	AAT/NAP
Start	11601	End	15472
GI	5852180	Score	942

Exons	11601..11643, 14659..15472		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113028	Strand	-
Start	11601	End	15898
Name	OJ990715_11.0419.C2.o4.np	Method	AAT/NAP
Start	11690	End	13203
GI	7228450	Score	194
Exons	11690..11806, 11892..12014, 12151..12236, 13087..13203		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113028	Strand	-
Start	11601	End	15898
Name	OJ990715_11.0419.C2.o6.gs	Method	GENSCAN
Start	12365	End	15898
GI	none	Score	.66
Exons	12365..12409, 12602..12807, 14541..14642, 14728..15133, 15187..15362, 15808..15898		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113029	Strand	-
Start	41602	End	41986
Name	OJ990715_11.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	10903	End	11307
GI	none	Score	81
Exons	10903..10998, 10911..11000, 10921..10980, 10989..11030, 11034..11165, 11038..11166, 11145..11207, 11179..11196, 11210..11302, 11228..11302, 11236..11307		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113029	Strand	-
Start	41602	End	41986
Name	OJ990715_11.0419.C2.o2.ts	Method	TBLASTX:Soybean
Start	17482	End	35566
GI	none	Score	205
Exons	17482..17523, 17483..17662, 17566..17658, 18220..18288, 34628..34750, 34628..34786, 34629..34796, 34632..34787, 35498..35566		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113029	Strand	-
Start	41602	End	41986
Name	OJ990715_11.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	19249	End	37207
GI	none	Score	123
Exons	19249..19332, 19251..19334, 19430..19507, 19431..19505, 19703..19795, 19711..19794, 19728..19796, 19729..19800, 19872..19958, 19872..19964, 19879..19962, 19882..19968, 20042..20128, 20056..20136, 20249..20266, 36306..36389, 36308..36391, 36469..36561, 36806..36880, 36807..36881, 36957..37043, 36958..37041, 37125..37193, 37157..37207		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113029	Strand	-
Start	41602	End	41986

Name	OJ990715_11.0419.C2.o3.tm	Method	TBLASTX:Maize
Start	19274	End	37207
GI	none	Score	94
Exons	19274..19333, 19275..19334, 19275..19334, 19430..19507, 19431..19505, 19432..19506, 19703..19795, 19720..19794, 19723..19806, 19872..19961, 19879..19962, 20050..20127, 20051..20110, 36332..36394, 36335..36391, 36466..36561, 36467..36562, 36469..36561, 36793..36888, 36807..36881, 36809..36889, 36955..37035, 36956..37036, 36957..37043, 36957..37040, 36958..37047, 37128..37190, 37139..37207, 37151..37207		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113029	Strand	-
Start	41602	End	41986
Name	OJ990715_11.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	23061	End	31542
GI	none	Score	167
Exons	23061..23090, 23164..23283, 23187..23282, 24624..24800, 24626..24802, 24668..24808, 24883..24957, 24884..24913, 24884..24958, 24885..24959, 24886..24960, 25530..25628, 25536..25628, 25537..25629, 25543..25635, 25547..25636, 26006..26071, 26008..26079, 26008..26076, 26138..26188, 26139..26186, 26139..26201, 26141..26188, 26977..27045, 26978..27046, 27286..27381, 27296..27370, 27298..27378, 27300..27383, 27423..27512, 27458..27511, 27463..27513, 28399..28458, 28402..28458, 28406..28462, 28538..28618, 28548..28607, 28548..28625, 28926..28982, 28930..28983, 28930..28992, 28931..28993, 30102..30158, 30102..30173, 30103..30159, 30104..30160, 30247..30291, 30250..30315, 30251..30319, 31036..31104, 31036..31104, 31041..31106, 31304..31396, 31307..31405, 31323..31412, 31323..31412, 31468..31542, 31479..31532		

Seq. No.	53751	Seq. ID	OJ990715_11.0419.C2
Gene No.	113029	Strand	-
Start	41602	End	41986
Name	OJ990715_11.0419.C2.o9.gp	Method	AAT/GAP
Start	41602	End	41986
GI	LIB3477-003-P1-K1-E9	Score	118
Exons	41602..41637, 41923..41986		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113030	Strand	+
Start	4669	End	11648
Name	OJ990715_11.0419.C3.o1.np	Method	AAT/NAP
Start	4653	End	7565
GI	7459604	Score	791
Exons	4653..5507, 6832..7565		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi|2244882|emb|CAB10303.1| (Z97338) hypothetical protein [Arabidopsis thaliana] gi|7268271|emb|CAB78566.1| (AL161541) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113030	Strand	+
Start	4669	End	11648
Name	OJ990715_11.0419.C3.o2.gs	Method	GENSCAN
Start	4669	End	11648
GI	none	Score	.54
Exons	4669..4765, 4870..5507, 7114..7237, 8024..8084, 11282..11648		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113030	Strand	+
Start	4669	End	11648
Name	OJ990715_11.0419.C3.o2.gp	Method	AAT/GAP
Start	7036	End	7573
GI	LIB3432-005-P1-K1-H4	Score	803
Exons	7036..7365, 7461..7573		
GI Descrip.	'2244882/emb|CAB10303.1| 3.0e-16 (Z97338) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113031	Strand	+
Start	12259	End	13222
Name	OJ990715_11.0419.C3.o3.gp	Method	AAT/GAP
Start	12036	End	12986
GI	17087_1.R1084	Score	948
Exons	12036..12433, 12871..12986		
GI Descrip.	'4104058 1.0e-11 (AF031195) blue copper-binding protein homolog [Triticum aestivum]'		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113031	Strand	+
Start	12259	End	13222
Name	OJ990715_11.0419.C3.o3.gs	Method	GENSCAN
Start	12259	End	13196
GI	none	Score	.62
Exons	12259..12433, 12871..13196		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113031	Strand	+
Start	12259	End	13222
Name	OJ990715_11.0419.C3.o2.np	Method	AAT/NAP
Start	12265	End	13222
GI	4104058	Score	282
Exons	12265..12433, 12871..13222		
GI Descrip.	(AF031195) blue copper-binding protein homolog [Triticum aestivum]		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113032	Strand	-
Start	32	End	458
Name	OJ990715_11.0419.C3.o1.gp	Method	AAT/GAP
Start	32	End	458
GI	4878407	Score	676
Exons	32..458		
GI Descrip.	6069643/dbj|AP000616.1|AP000616 1.0e-152 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3

Gene No.	113033	Strand	-
Start	13761	End	19185
Name	OJ990715_11.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	5088	End	5456
GI	none	Score	63
Exons	5088..5156, 5181..5372, 5355..5456		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113033	Strand	-
Start	13761	End	19185
Name	OJ990715_11.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	5141	End	7056
GI	5666695	Score	354
Exons	5141..5314, 5190..5510, 5414..5500, 6829..7056, 6843..7055		
GI Descrip.	-		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113033	Strand	-
Start	13761	End	19185
Name	OJ990715_11.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	12334	End	13064
GI	none	Score	147
Exons	12334..12426, 12358..12426, 12362..12439, 12362..12427, 12860..13057, 12873..13064		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113033	Strand	-
Start	13761	End	19185
Name	OJ990715_11.0419.C3.o3.tw	Method	TBLASTX:Wheat
Start	12340	End	15780
GI	none	Score	98
Exons	12340..12426, 12367..12432, 12368..12451, 12857..13051, 12858..13064, 15691..15780		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113033	Strand	-
Start	13761	End	19185
Name	OJ990715_11.0419.C3.o2.ts	Method	TBLASTX:Soybean
Start	12346	End	13206
GI	none	Score	63
Exons	12346..12426, 12894..13064, 13165..13206		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113033	Strand	-
Start	13761	End	19185
Name	OJ990715_11.0419.C3.o2.tc	Method	TBLASTX:Cress
Start	12855	End	13064
GI	none	Score	183
Exons	12855..13064, 12896..13051		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113033	Strand	-
Start	13761	End	19185
Name	OJ990715_11.0419.C3.o4.gs	Method	GENSCAN
Start	13761	End	17837
GI	none	Score	.69
Exons	13761..13826, 14364..14402, 14841..15012, 15179..15349,		

15432..16807, 16886..17619, 17708..17837

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113033	Strand	-
Start	13761	End	19185
Name	OJ990715_11.0419.C3.o4.gp	Method	AAT/GAP
Start	14503	End	15023
GI	LIB3431-001-P1-N1-B5	Score	766
Exons	14503..14735, 14841..15023		
GI Descrip.	'4680203/gb|AAD27566.1|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]'		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113033	Strand	-
Start	13761	End	19185
Name	OJ990715_11.0419.C3.o3.np	Method	AAT/NAP
Start	17179	End	19185
GI	5724773	Score	668
Exons	17179..17348, 18370..19185		
GI Descrip.	(AF160183) contains similarity to Antirrhinum majus hypothetical protein TNP2 (GB:X57297); may be a pseudogene [Arabidopsis thaliana]		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113033	Strand	-
Start	13761	End	19185
Name	OJ990715_11.0419.C3.o5.gs	Method	GENSCAN
Start	18320	End	19138
GI	none	Score	.67
Exons	18320..19138		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113033	Strand	-
Start	13761	End	19185
Name	OJ990715_11.0419.C3.o5.gp	Method	AAT/GAP
Start	18367	End	18829
GI	5002953	Score	316
Exons	18367..18439, 18698..18829		
GI Descrip.	4680203/gb|AAD27566.1|AF114171_7 1.0e-39 (AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113033	Strand	-
Start	13761	End	19185
Name	OJ990715_11.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	18369	End	18814
GI	none	Score	187
Exons	18369..18770, 18371..18814		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113033	Strand	-
Start	13761	End	19185
Name	OJ990715_11.0419.C3.o2.tm	Method	TBLASTX:Maize
Start	18425	End	18910
GI	none	Score	89
Exons	18425..18910, 18432..18581, 18717..18893		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113033	Strand	-
Start	13761	End	19185
Name	OJ990715_11.0419.C3.o2.tw	Method	TBLASTX:Wheat
Start	18818	End	19174
GI	none	Score	66
Exons	18818..18901, 18819..18902, 18938..19174, 18939..19139		

Seq. No.	53752	Seq. ID	OJ990715_11.0419.C3
Gene No.	113033	Strand	-
Start	13761	End	19185
Name	OJ990715_11.0419.C3.o3.tm	Method	TBLASTX:Maize
Start	18947	End	19162
GI	none	Score	93
Exons	18947..19009, 19016..19162, 19026..19133		

Seq. No.	53753	Seq. ID	OJ990715_11.0419.C4
Gene No.	113034	Strand	-
Start	1	End	797
Name	OJ990715_11.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	797
GI	4680203	Score	866
Exons	1..797		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	53753	Seq. ID	OJ990715_11.0419.C4
Gene No.	113034	Strand	-
Start	1	End	797
Name	OJ990715_11.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	2	End	457
GI	none	Score	91
Exons	2..187, 4..159, 128..298, 190..306, 204..302, 205..315, 307..411, 314..400, 422..457		

Seq. No.	53753	Seq. ID	OJ990715_11.0419.C4
Gene No.	113034	Strand	-
Start	1	End	797
Name	OJ990715_11.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	10	End	408
GI	none	Score	78
Exons	10..159, 163..408, 167..358		

Seq. No.	53753	Seq. ID	OJ990715_11.0419.C4
Gene No.	113034	Strand	-
Start	1	End	797
Name	OJ990715_11.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	253	End	583
GI	none	Score	59
Exons	253..582, 254..328, 295..399, 350..409, 446..583		

Seq. No.	53753	Seq. ID	OJ990715_11.0419.C4
Gene No.	113034	Strand	-
Start	1	End	797
Name	OJ990715_11.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	331	End	750
GI	none	Score	110
Exons	331..579, 335..580, 629..748, 630..749, 631..750		

Seq. No.	53753	Seq. ID	OJ990715_11.0419.C4
Gene No.	113034	Strand	-
Start	1	End	797
Name	OJ990715_11.0419.C4.o2.tw	Method	TBLASTX:Wheat
Start	478	End	796
GI	none	Score	54
Exons	478..582, 488..583, 629..796, 631..795		

Seq. No.	53754	Seq. ID	OJ990715_11.0419.C11
Gene No.	113035	Strand	-
Start	99	End	325
Name	OJ990715_11.0419.C11.o1.gs	Method	GENSCAN
Start	99	End	325
GI	none	Score	.97
Exons	99..325		

Seq. No.	53755	Seq. ID	OJ990715_11.0419.C12
Gene No.	113036	Strand	+
Start	1	End	1094
Name	OJ990715_11.0419.C12.o1.np	Method	AAT/NAP
Start	1	End	1091
GI	7267236	Score	134
Exons	1..36, 507..578, 852..903, 1018..1091		
GI Descrip.	(AL161501) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53755	Seq. ID	OJ990715_11.0419.C12
Gene No.	113036	Strand	+
Start	1	End	1094
Name	OJ990715_11.0419.C12.o1.gs	Method	GENSCAN
Start	507	End	1094
GI	none	Score	.92
Exons	507..578, 852..903, 1018..1094		

Seq. No.	53755	Seq. ID	OJ990715_11.0419.C12
Gene No.	113037	Strand	-
Start	1882	End	7449
Name	OJ990715_11.0419.C12.o2.gs	Method	GENSCAN
Start	1882	End	6844
GI	none	Score	.74
Exons	1882..1961, 2252..2470, 2487..2587, 2657..2790, 2858..3037, 3983..4039, 4142..4283, 5076..5203, 5315..5420, 5534..5613, 5717..5814, 5928..6041, 6198..6338, 6505..6589, 6728..6844		

Seq. No.	53755	Seq. ID	OJ990715_11.0419.C12
Gene No.	113037	Strand	-
Start	1882	End	7449
Name	OJ990715_11.0419.C12.o2.np	Method	AAT/NAP
Start	2223	End	3112
GI	2281103	Score	192
Exons	2223..2531, 3055..3112		
GI Descrip.	(AC002333) putative beta-1,3-glucanase, C terminal fragment [Arabidopsis thaliana]		

Seq. No.	53755	Seq. ID	OJ990715_11.0419.C12
Gene No.	113037	Strand	-
Start	1882	End	7449

Name	OJ990715_11.0419.C12.o1.gp	Method	AAT/GAP
Start	3468	End	3696
GI	2275993	Score	454
Exons	3468..3696		

Seq. No.	53755	Seq. ID	OJ990715_11.0419.C12
Gene No.	113037	Strand	-
Start	1882	End	7449
Name	OJ990715_11.0419.C12.o3.np	Method	AAT/NAP
Start	3730	End	7449
GI	4835771	Score	950
Exons	3730..3810, 3983..4042, 4169..4283, 5076..5203, 5315..5420, 5534..5613, 5717..5814, 5928..6041, 6198..6338, 6505..6589, 6728..6820, 7347..7449		
GI Descrip.	(AC007202) Similar to gi|3844599 F31D5.2 gene product from Caenorhabditis elegans cosmid gb|U28941 and contains PF|00097 Zinc (Ring) finger C3HC4 domain. ESTs gb|F19963 and gb|T42582 come from this gene. [Arabidopsis thaliana]		

Seq. No.	53755	Seq. ID	OJ990715_11.0419.C12
Gene No.	113037	Strand	-
Start	1882	End	7449
Name	OJ990715_11.0419.C12.o1.tm	Method	TBLASTX:Maize
Start	3733	End	6595
GI	none	Score	117
Exons	3733..3813, 3986..4042, 5052..5204, 5075..5206, 5315..5422, 5319..5426, 5536..5616, 5714..5827, 5715..5819, 5926..6042, 5927..6082, 6199..6330, 6199..6345, 6215..6349, 6492..6590, 6497..6595		

Seq. No.	53755	Seq. ID	OJ990715_11.0419.C12
Gene No.	113037	Strand	-
Start	1882	End	7449
Name	OJ990715_11.0419.C12.o2.gp	Method	AAT/GAP
Start	4144	End	5340
GI	LIB3433-019-P1-K1-H12	Score	493
Exons	4144..4283, 5076..5203, 5315..5340		
GI Descrip.	'4835771/gb|AAD30238.1|AC007202_20 1.0e-18 (AC007202) Similar to gi_3844599 F31D5.2 gene product from Caenorhabditis elegans cosmid gb_U28941 and contains PF_00097 Zinc (Ring) finger C3HC4 domain. ESTs gb_F19963 and gb_T42582 come from this gene. [Arabidops'		

Seq. No.	53755	Seq. ID	OJ990715_11.0419.C12
Gene No.	113037	Strand	-
Start	1882	End	7449
Name	OJ990715_11.0419.C12.o1.ts	Method	TBLASTX:Soybean
Start	5075	End	6051
GI	none	Score	101
Exons	5075..5206, 5076..5204, 5301..5435, 5315..5422, 5316..5423, 5536..5616, 5714..5827, 5715..5816, 5926..6051, 5927..6031		

Seq. No.	53755	Seq. ID	OJ990715_11.0419.C12
Gene No.	113037	Strand	-
Start	1882	End	7449
Name	OJ990715_11.0419.C12.o1.tc	Method	TBLASTX:Cress
Start	5315	End	6046

GI	none	Score	124
Exons	5315..5422, 5319..5435, 5536..5616, 5714..5827, 5715..5822, 5926..6042, 5927..6046		

Seq. No.	53755	Seq. ID	OJ990715_11.0419.C12
Gene No.	113037	Strand	-
Start	1882	End	7449
Name	OJ990715_11.0419.C12.o2.tc	Method	TBLASTX:Cress
Start	6196	End	6778
GI	none	Score	73
Exons	6196..6339, 6199..6345, 6218..6358, 6452..6592, 6489..6590, 6725..6778		

Seq. No.	53755	Seq. ID	OJ990715_11.0419.C12
Gene No.	113037	Strand	-
Start	1882	End	7449
Name	OJ990715_11.0419.C12.o2.ts	Method	TBLASTX:Soybean
Start	6196	End	6592
GI	none	Score	87
Exons	6196..6315, 6199..6345, 6215..6355, 6495..6590, 6503..6592		

Seq. No.	53756	Seq. ID	OJ990715_11.0419.C13
Gene No.	113038	Strand	+
Start	9	End	5480
Name	OJ990715_11.0419.C13.o1.gs	Method	GENSCAN
Start	9	End	5480
GI	none	Score	.82
Exons	9..152, 224..297, 420..517, 927..1080, 1154..1286, 1515..1722, 1847..1974, 2347..2460, 2683..2900, 3468..3526, 3876..3999, 4131..4186, 4627..4772, 4877..5047, 5199..5480		

Seq. No.	53756	Seq. ID	OJ990715_11.0419.C13
Gene No.	113038	Strand	+
Start	9	End	5480
Name	OJ990715_11.0419.C13.o1.np	Method	AAT/NAP
Start	357	End	5474
GI	6729013	Score	603
Exons	357..517, 927..1080, 1154..1286, 1629..1731, 1871..2002, 2148..2248, 2347..2465, 2748..2900, 3468..3526, 3601..3786, 4627..4772, 4877..5047, 5199..5474		
GI Descrip.	(AC016827) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53756	Seq. ID	OJ990715_11.0419.C13
Gene No.	113039	Strand	-
Start	6195	End	6831
Name	OJ990715_11.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	926	End	1289
GI	none	Score	95
Exons	926..1003, 929..982, 977..1084, 977..1084, 1152..1202, 1173..1220, 1209..1289, 1209..1280		

Seq. No.	53756	Seq. ID	OJ990715_11.0419.C13
Gene No.	113039	Strand	-
Start	6195	End	6831
Name	OJ990715_11.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	1915	End	2459
GI	none	Score	117

Exons	1915..2001, 1920..2000, 2144..2248, 2147..2251, 2154..2249, 2325..2438, 2344..2451, 2347..2451, 2348..2452, 2349..2459		
Seq. No.	53756	Seq. ID	OJ990715_11.0419.C13
Gene No.	113039	Strand	-
Start	6195	End	6831
Name	OJ990715_11.0419.C13.o2.gs	Method	GENSCAN
Start	6195	End	6831
GI	none	Score	.8
Exons	6195..6322, 6747..6831		
Seq. No.	53757	Seq. ID	OJ990715_11.0419.C14
Gene No.	113040	Strand	+
Start	3410	End	3602
Name	OJ990715_11.0419.C14.o1.gp	Method	AAT/GAP
Start	3410	End	3602
GI	15870_2.R1084	Score	272
Exons	3410..3602		
GI Descrip.	'287403/dbj|D10838|RICSBE1 8.0e-69 Rice gene for starch branching enzyme'		
Seq. No.	53757	Seq. ID	OJ990715_11.0419.C14
Gene No.	113041	Strand	-
Start	519	End	1313
Name	OJ990715_11.0419.C14.o1.gs	Method	GENSCAN
Start	519	End	1313
GI	none	Score	.91
Exons	519..680, 1275..1313		
Seq. No.	53758	Seq. ID	OJ990715_11.0419.C15
Gene No.	113042	Strand	-
Start	1	End	1175
Name	OJ990715_11.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	1175
GI	5817305	Score	86
Exons	1..26, 444..523, 828..932, 1149..1175		
GI Descrip.	(AF087820) auxin transport protein [Arabidopsis thaliana]		
Seq. No.	53758	Seq. ID	OJ990715_11.0419.C15
Gene No.	113042	Strand	-
Start	1	End	1175
Name	OJ990715_11.0419.C15.o1.gs	Method	GENSCAN
Start	36	End	983
GI	none	Score	.73
Exons	36..361, 373..461, 467..667, 828..983		
Seq. No.	53759	Seq. ID	OJ990715_11.0419.C21
Gene No.	113043	Strand	-
Start	534	End	733
Name	OJ990715_11.0419.C21.o1.gs	Method	GENSCAN
Start	534	End	733
GI	none	Score	.42
Exons	534..733		
Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113044	Strand	+
Start	1	End	1368

Name	OJ990715_11.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	1347
GI	2147484	Score	1682
Exons	1..920, 1009..1347		
GI Descrip.	homeotic protein - Phalaenopsis sp gi|1173622 (U34743) homeobox protein [Phalaenopsis sp. 'hybrid SM9108']		

Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113044	Strand	+
Start	1	End	1368
Name	OJ990715_11.0419.C22.o1.gs	Method	GENSCAN
Start	9	End	1368
GI	none	Score	.47
Exons	9..920, 1027..1368		

Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113045	Strand	-
Start	3592	End	6850
Name	OJ990715_11.0419.C22.o1.gp	Method	AAT/GAP
Start	3362	End	4732
GI	3079_1.R1084	Score	1032
Exons	3362..3767, 4500..4594, 4676..4732		
GI Descrip.	'1174778/sp|P43283|TRP1_MAIZE 2.0e-54 TRYPTOPHAN SYNTHASE BETA CHAIN 1 (ORANGE PERICARP 1) >gi_320136_pir__PQ0449 tryptophan synthase (EC 4.2.1.20) beta-1 chain - maize (fragment) >gi_168572 (M76684) tryptophan synthase beta-subunit [Zea mays]'		

Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113045	Strand	-
Start	3592	End	6850
Name	OJ990715_11.0419.C22.o2.gs	Method	GENSCAN
Start	3592	End	6486
GI	none	Score	.89
Exons	3592..3767, 4500..4594, 4676..5118, 5228..5584, 6283..6486		

Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113045	Strand	-
Start	3592	End	6850
Name	OJ990715_11.0419.C22.o2.np	Method	AAT/NAP
Start	3595	End	6850
GI	1174780	Score	1915
Exons	3595..3767, 4500..4594, 4676..5118, 5228..5584, 6283..6517, 6827..6850		
GI Descrip.	TRYPTOPHAN SYNTHASE BETA CHAIN 2 PRECURSOR (ORANGE PERICARP 2) gi|320135|pir||PQ0450 tryptophan synthase (EC 4.2.1.20) beta-2 chain precursor - maize (fragment) gi|168574 (M76685) tryptophan synthase beta-subunit [Zea mays]		

Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113045	Strand	-
Start	3592	End	6850
Name	OJ990715_11.0419.C22.o2.gp	Method	AAT/GAP
Start	5032	End	6606
GI	641_1.R1084	Score	1277
Exons	5032..5118, 5228..5584, 6283..6518, 6582..6606		
GI Descrip.	'1174780/sp|P43284|TRP2_MAIZE 7.0e-97 TRYPTOPHAN SYNTHASE BETA CHAIN 2 PRECURSOR (ORANGE PERICARP 2) >gi_320135_pir__PQ0450		

tryptophan synthase (EC 4.2.1.20) beta-2 chain precursor - maize (fragment) >gi_168574 (M76685) tryptophan synthase beta-subunit [Zea mays]'

Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113046	Strand	-
Start	7231	End	13522
Name	OJ990715_11.0419.C22.o3.gs	Method	GENSCAN
Start	7231	End	13522
GI	none	Score	.46
Exons	7231..7281, 7299..7472, 10388..12468, 12969..13049, 13126..13522		

Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113047	Strand	-
Start	16436	End	17828
Name	OJ990715_11.0419.C22.o1.tc	Method	TBLASTX:Cress
Start	2	End	1338
GI	none	Score	373
Exons	2..259, 3..275, 321..530, 332..526, 542..919, 543..905, 999..1175, 1003..1176, 1204..1338, 1212..1337		

Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113047	Strand	-
Start	16436	End	17828
Name	OJ990715_11.0419.C22.o1.ts	Method	TBLASTX:Soybean
Start	3	End	1176
GI	none	Score	270
Exons	3..266, 23..259, 321..509, 332..517, 539..910, 558..905, 1003..1176		

Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113047	Strand	-
Start	16436	End	17828
Name	OJ990715_11.0419.C22.o2.tm	Method	TBLASTX:Maize
Start	60	End	1338
GI	none	Score	221
Exons	60..272, 62..259, 321..560, 332..559, 537..671, 557..667, 663..905, 665..925, 1015..1176, 1023..1175, 1204..1338, 1212..1325		

Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113047	Strand	-
Start	16436	End	17828
Name	OJ990715_11.0419.C22.o3.ts	Method	TBLASTX:Soybean
Start	1204	End	1338
GI	none	Score	197
Exons	1204..1338, 1212..1337		

Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113047	Strand	-
Start	16436	End	17828
Name	OJ990715_11.0419.C22.o2.ts	Method	TBLASTX:Soybean
Start	3584	End	6406
GI	none	Score	109
Exons	3584..3739, 3589..3768, 3674..3772, 4498..4593, 4501..4605, 4533..4601, 4638..5120, 4675..5154, 4676..5134, 4681..5154, 5221..5559, 5225..5587, 5226..5585, 6283..6405, 6356..6406		

Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113047	Strand	-
Start	16436	End	17828
Name	OJ990715_11.0419.C22.o2.tc	Method	TBLASTX:Cress
Start	3589	End	6405
GI	none	Score	97
Exons	3589..3768, 3677..3772, 4501..4605, 4538..4594, 4636..5154, 4667..5119, 4675..5154, 4853..5155, 5225..5590, 5225..5608, 5226..5603, 6269..6403, 6283..6405		

Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113047	Strand	-
Start	16436	End	17828
Name	OJ990715_11.0419.C22.o1.tm	Method	TBLASTX:Maize
Start	3592	End	6432
GI	none	Score	180
Exons	3592..3768, 3594..3767, 3595..3768, 3602..3775, 3603..3776, 4496..4594, 4497..4601, 4498..4599, 4501..4605, 4667..5119, 4674..5132, 4675..5154, 4676..5119, 5214..5585, 5225..5608, 5226..5603, 6283..6432, 6284..6403		

Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113047	Strand	-
Start	16436	End	17828
Name	OJ990715_11.0419.C22.o4.tm	Method	TBLASTX:Maize
Start	10249	End	10577
GI	none	Score	128
Exons	10249..10284, 10257..10289, 10364..10573, 10386..10571, 10388..10576, 10533..10577		

Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113047	Strand	-
Start	16436	End	17828
Name	OJ990715_11.0419.C22.o3.tm	Method	TBLASTX:Maize
Start	11485	End	11929
GI	none	Score	110
Exons	11485..11694, 11486..11929, 11487..11927, 11495..11929		

Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113047	Strand	-
Start	16436	End	17828
Name	OJ990715_11.0419.C22.o5.tm	Method	TBLASTX:Maize
Start	15350	End	15776
GI	none	Score	44
Exons	15350..15394, 15353..15406, 15483..15566, 15515..15577, 15516..15566, 15517..15567, 15576..15668, 15578..15685, 15581..15661, 15676..15708, 15678..15710, 15703..15756, 15705..15776, 15717..15758		

Seq. No.	53760	Seq. ID	OJ990715_11.0419.C22
Gene No.	113047	Strand	-
Start	16436	End	17828
Name	OJ990715_11.0419.C22.o4.gs	Method	GENSCAN
Start	16436	End	17828
GI	none	Score	.52
Exons	16436..16470, 16924..17007, 17116..17234, 17671..17828		

Seq. No.	53761	Seq. ID	OJ990715_11.0419.C23
Gene No.	113048	Strand	+
Start	263	End	340
Name	OJ990715_11.0419.C23.o1.gp	Method	AAT/GAP
Start	263	End	340
GI	LIB3477-003-P1-K1-E9	Score	92
Exons	263..340		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	53762	Seq. ID	OJ990715_11.0419.C25
Gene No.	113049	Strand	+
Start	62	End	2208
Name	OJ990715_11.0419.C25.o1.gs	Method	GENSCAN
Start	62	End	2208
GI	none	Score	.42
Exons	62..125, 245..334, 1124..1202, 2135..2208		

Seq. No.	53762	Seq. ID	OJ990715_11.0419.C25
Gene No.	113050	Strand	+
Start	3433	End	4089
Name	OJ990715_11.0419.C25.o1.gp	Method	AAT/GAP
Start	3433	End	4089
GI	82543_1.R1084	Score	1249
Exons	3433..4089		
GI Descrip.	'3643271 1.0e-30 (AF090872) 33 kDa secretory protein [Oryza sativa] >gi_3851590 (AF093570) 33 kDa secretory protein [Oryza sativa] >gi_4249681 (AF097724) 33 kDa secretory protein [Oryza sativa]'		

Seq. No.	53762	Seq. ID	OJ990715_11.0419.C25
Gene No.	113051	Strand	-
Start	214	End	1655
Name	OJ990715_11.0419.C25.o1.np	Method	AAT/NAP
Start	214	End	1655
GI	6907088	Score	888
Exons	214..613, 1101..1341, 1518..1655		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	53762	Seq. ID	OJ990715_11.0419.C25
Gene No.	113052	Strand	-
Start	3630	End	5038
Name	OJ990715_11.0419.C25.o2.gs	Method	GENSCAN
Start	3630	End	4941
GI	none	Score	.73
Exons	3630..4083, 4568..4941		

Seq. No.	53762	Seq. ID	OJ990715_11.0419.C25
Gene No.	113052	Strand	-
Start	3630	End	5038
Name	OJ990715_11.0419.C25.o2.np	Method	AAT/NAP
Start	3633	End	4941
GI	3643271	Score	1209
Exons	3633..4083, 4568..4941		
GI Descrip.	(AF090872) 33 kDa secretory protein [Oryza sativa] gi|3851590		

(AF093570) 33 kDa secretory protein [Oryza sativa] gi|4249681
(AF097724) 33 kDa secretory protein [Oryza sativa]

Seq. No.	53762	Seq. ID	OJ990715_11.0419.C25
Gene No.	113052	Strand	-
Start	3630	End	5038
Name	OJ990715_11.0419.C25.o2.gp	Method	AAT/GAP
Start	4569	End	5038
GI	887_4.R1084	Score	833
Exons	4569..5038		
GI Descrip.	'3643271 7.0e-16 (AF090872) 33 kDa secretory protein [Oryza sativa] >gi_3851590 (AF093570) 33 kDa secretory protein [Oryza sativa] >gi_4249681 (AF097724) 33 kDa secretory protein [Oryza sativa]'		

Seq. No.	53762	Seq. ID	OJ990715_11.0419.C25
Gene No.	113053	Strand	-
Start	6900	End	7085
Name	OJ990715_11.0419.C25.o3.gs	Method	GENSCAN
Start	6900	End	7085
GI	none	Score	.97
Exons	6900..7085		

Seq. No.	53763	Seq. ID	OJ990715_11.0419.C26
Gene No.	113054	Strand	+
Start	17	End	622
Name	OJ990715_11.0419.C26.o1.gs	Method	GENSCAN
Start	17	End	622
GI	none	Score	.73
Exons	17..189, 251..411, 444..622		

Seq. No.	53763	Seq. ID	OJ990715_11.0419.C26
Gene No.	113055	Strand	-
Start	1112	End	1563
Name	OJ990715_11.0419.C26.o1.np	Method	AAT/NAP
Start	1112	End	1563
GI	3643271	Score	579
Exons	1112..1563		
GI Descrip.	(AF090872) 33 kDa secretory protein [Oryza sativa] gi|3851590 (AF093570) 33 kDa secretory protein [Oryza sativa] gi|4249681 (AF097724) 33 kDa secretory protein [Oryza sativa]		

Seq. No.	53764	Seq. ID	OJ990715_12.0419.C6
Gene No.	113056	Strand	-
Start	1	End	726
Name	OJ990715_12.0419.C6.o1.np	Method	AAT/NAP
Start	1	End	726
GI	4680182	Score	313
Exons	1..726		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	53765	Seq. ID	OJ990715_12.0419.C12
Gene No.	113057	Strand	+
Start	212	End	753
Name	OJ990715_12.0419.C12.o1.gs	Method	GENSCAN
Start	212	End	753
GI	none	Score	.7

Exons	212..365, 602..753		
Seq. No.	53766	Seq. ID	OJ990615_10.0419.C3
Gene No.	113058	Strand	+
Start	1	End	368
Name	OJ990615_10.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	344
GI	5295971	Score	369
Exons	1..344		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		
Seq. No.	53766	Seq. ID	OJ990615_10.0419.C3
Gene No.	113058	Strand	+
Start	1	End	368
Name	OJ990615_10.0419.C3.o1.tm	Method	TBLASTX:Maize
Start	2	End	308
GI	none	Score	359
Exons	2..307, 3..308		
Seq. No.	53766	Seq. ID	OJ990615_10.0419.C3
Gene No.	113058	Strand	+
Start	1	End	368
Name	OJ990615_10.0419.C3.o1.ts	Method	TBLASTX:Soybean
Start	2	End	188
GI	none	Score	184
Exons	2..187, 3..188		
Seq. No.	53766	Seq. ID	OJ990615_10.0419.C3
Gene No.	113058	Strand	+
Start	1	End	368
Name	OJ990615_10.0419.C3.o1.tc	Method	TBLASTX:Cress
Start	60	End	368
GI	none	Score	191
Exons	60..323, 101..322, 336..368		
Seq. No.	53766	Seq. ID	OJ990615_10.0419.C3
Gene No.	113058	Strand	+
Start	1	End	368
Name	OJ990615_10.0419.C3.o1.gs	Method	GENSCAN
Start	75	End	332
GI	none	Score	.83
Exons	75..332		
Seq. No.	53767	Seq. ID	OJ990615_10.0419.C4
Gene No.	113059	Strand	-
Start	1	End	1519
Name	OJ990615_10.0419.C4.o1.np	Method	AAT/NAP
Start	1	End	1519
GI	5803259	Score	751
Exons	1..690, 1487..1519		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		
Seq. No.	53768	Seq. ID	OJ990615_10.0419.C5
Gene No.	113060	Strand	-
Start	1	End	1145

Name	OJ990615_10.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	1145
GI	7228456	Score	992
Exons	1..94, 555..1145		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	53769	Seq. ID	OJ990615_10.0419.C14
Gene No.	113061	Strand	+
Start	1	End	1789
Name	OJ990615_10.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	1789
GI	5295971	Score	1612
Exons	1..691, 737..1789		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	53769	Seq. ID	OJ990615_10.0419.C14
Gene No.	113061	Strand	+
Start	1	End	1789
Name	OJ990615_10.0419.C14.o2.ts	Method	TBLASTX:Soybean
Start	3	End	1026
GI	none	Score	185
Exons	3..380, 861..1025, 862..1026		

Seq. No.	53769	Seq. ID	OJ990615_10.0419.C14
Gene No.	113061	Strand	+
Start	1	End	1789
Name	OJ990615_10.0419.C14.o2.tw	Method	TBLASTX:Wheat
Start	3	End	332
GI	none	Score	221
Exons	3..332		

Seq. No.	53769	Seq. ID	OJ990615_10.0419.C14
Gene No.	113061	Strand	+
Start	1	End	1789
Name	OJ990615_10.0419.C14.o1.gs	Method	GENSCAN
Start	27	End	1722
GI	none	Score	.41
Exons	27..507, 548..1722		

Seq. No.	53769	Seq. ID	OJ990615_10.0419.C14
Gene No.	113061	Strand	+
Start	1	End	1789
Name	OJ990615_10.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	56	End	383
GI	none	Score	279
Exons	56..382, 57..383		

Seq. No.	53769	Seq. ID	OJ990615_10.0419.C14
Gene No.	113061	Strand	+
Start	1	End	1789
Name	OJ990615_10.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	832	End	1308
GI	none	Score	55
Exons	832..918, 894..1094, 895..1113, 1210..1308		

Seq. No.	53769	Seq. ID	OJ990615_10.0419.C14
Gene No.	113061	Strand	+
Start	1	End	1789
Name	OJ990615_10.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	915	End	1374
GI	none	Score	217
Exons	915..1091, 931..1149, 1207..1287, 1294..1374		

Seq. No.	53769	Seq. ID	OJ990615_10.0419.C14
Gene No.	113061	Strand	+
Start	1	End	1789
Name	OJ990615_10.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	1312	End	1632
GI	none	Score	218
Exons	1312..1632, 1408..1488		

Seq. No.	53769	Seq. ID	OJ990615_10.0419.C14
Gene No.	113061	Strand	+
Start	1	End	1789
Name	OJ990615_10.0419.C14.o3.tw	Method	TBLASTX:Wheat
Start	1447	End	1787
GI	none	Score	122
Exons	1447..1659, 1661..1783, 1662..1787		

Seq. No.	53769	Seq. ID	OJ990615_10.0419.C14
Gene No.	113061	Strand	+
Start	1	End	1789
Name	OJ990615_10.0419.C14.o3.tm	Method	TBLASTX:Maize
Start	1459	End	1787
GI	none	Score	98
Exons	1459..1632, 1662..1787, 1664..1786		

Seq. No.	53770	Seq. ID	OJ990615_10.0419.C15
Gene No.	113062	Strand	+
Start	1	End	1360
Name	OJ990615_10.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	1360
GI	6539558	Score	1632
Exons	1..1360		
GI Descrip.	(AP000836) Similar to putative polyprotein (AC006248) [Oryza sativa]		

Seq. No.	53770	Seq. ID	OJ990615_10.0419.C15
Gene No.	113062	Strand	+
Start	1	End	1360
Name	OJ990615_10.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	31	End	534
GI	5509260	Score	441
Exons	31..534, 126..290, 351..425		
GI Descrip.	-		

Seq. No.	53770	Seq. ID	OJ990615_10.0419.C15
Gene No.	113062	Strand	+
Start	1	End	1360
Name	OJ990615_10.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	61	End	378
GI	none	Score	380

Exons	61..378, 70..366, 117..377		
Seq. No.	53770	Seq. ID	OJ990615_10.0419.C15
Gene No.	113062	Strand	+
Start	1	End	1360
Name	OJ990615_10.0419.C15.o1.gs	Method	GENSCAN
Start	82	End	1182
GI	none	Score	.83
Exons	82..1182		
Seq. No.	53770	Seq. ID	OJ990615_10.0419.C15
Gene No.	113062	Strand	+
Start	1	End	1360
Name	OJ990615_10.0419.C15.o2.tc	Method	TBLASTX:Cress
Start	156	End	417
GI	none	Score	252
Exons	156..398, 157..417		
Seq. No.	53770	Seq. ID	OJ990615_10.0419.C15
Gene No.	113062	Strand	+
Start	1	End	1360
Name	OJ990615_10.0419.C15.o1.tw	Method	TBLASTX:Wheat
Start	198	End	738
GI	none	Score	305
Exons	198..329, 199..543, 214..546, 529..738		
Seq. No.	53770	Seq. ID	OJ990615_10.0419.C15
Gene No.	113062	Strand	+
Start	1	End	1360
Name	OJ990615_10.0419.C15.o3.tm	Method	TBLASTX:Maize
Start	582	End	840
GI	none	Score	304
Exons	582..839, 583..840, 610..840		
Seq. No.	53770	Seq. ID	OJ990615_10.0419.C15
Gene No.	113062	Strand	+
Start	1	End	1360
Name	OJ990615_10.0419.C15.o3.ts	Method	TBLASTX:Soybean
Start	688	End	951
GI	none	Score	223
Exons	688..951, 688..948		
Seq. No.	53770	Seq. ID	OJ990615_10.0419.C15
Gene No.	113062	Strand	+
Start	1	End	1360
Name	OJ990615_10.0419.C15.o2.tw	Method	TBLASTX:Wheat
Start	754	End	1146
GI	none	Score	66
Exons	754..861, 885..1034, 886..1071, 1072..1146		
Seq. No.	53770	Seq. ID	OJ990615_10.0419.C15
Gene No.	113062	Strand	+
Start	1	End	1360
Name	OJ990615_10.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	842	End	1299
GI	none	Score	101
Exons	842..1291, 847..1299, 847..1293, 876..1298		

Seq. No.	53770	Seq. ID	OJ990615_10.0419.C15
Gene No.	113062	Strand	+
Start	1	End	1360
Name	OJ990615_10.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	876	End	1299
GI	none	Score	285
Exons	876..1046, 877..1179, 1107..1178, 1182..1298, 1183..1299		

Seq. No.	53770	Seq. ID	OJ990615_10.0419.C15
Gene No.	113062	Strand	+
Start	1	End	1360
Name	OJ990615_10.0419.C15.o2.ts	Method	TBLASTX:Soybean
Start	955	End	1302
GI	none	Score	329
Exons	955..1302, 1098..1250		

Seq. No.	53771	Seq. ID	OJ990615_10.0419.C19
Gene No.	113063	Strand	+
Start	1	End	674
Name	OJ990615_10.0419.C19.o1.np	Method	AAT/NAP
Start	1	End	127
GI	4680186	Score	204
Exons	1..127		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	53771	Seq. ID	OJ990615_10.0419.C19
Gene No.	113063	Strand	+
Start	1	End	674
Name	OJ990615_10.0419.C19.o1.gs	Method	GENSCAN
Start	20	End	674
GI	none	Score	.96
Exons	20..152, 502..674		

Seq. No.	53771	Seq. ID	OJ990615_10.0419.C19
Gene No.	113064	Strand	-
Start	1	End	60
Name	OJ990615_10.0419.C19.o1.gp	Method	AAT/GAP
Start	1	End	60
GI	uC-osflcyp033a04b1	Score	112
Exons	1..60		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	53772	Seq. ID	OJ990615_10.0419.C21
Gene No.	113065	Strand	-
Start	78	End	299
Name	OJ990615_10.0419.C21.o1.gs	Method	GENSCAN
Start	78	End	299
GI	none	Score	.51
Exons	78..299		

Seq. No.	53773	Seq. ID	OJ990615_10.0419.C22
Gene No.	113066	Strand	-
Start	1	End	1087
Name	OJ990615_10.0419.C22.o1.np	Method	AAT/NAP
Start	1	End	1087

GI	7228457	Score	1733
Exons	1..101, 168..1087		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	53773	Seq. ID	OJ990615_10.0419.C22
Gene No.	113066	Strand	-
Start	1	End	1087
Name	OJ990615_10.0419.C22.o1.gs	Method	GENSCAN
Start	48	End	1037
GI	none	Score	.84
Exons	48..845, 924..1037		

Seq. No.	53773	Seq. ID	OJ990615_10.0419.C22
Gene No.	113066	Strand	-
Start	1	End	1087
Name	OJ990615_10.0419.C22.o1.tw	Method	TBLASTX:Wheat
Start	189	End	647
GI	none	Score	87
Exons	189..338, 190..327, 372..623, 373..558, 393..647		

Seq. No.	53774	Seq. ID	OJ990615_10.0419.C23
Gene No.	113067	Strand	-
Start	1	End	545
Name	OJ990615_10.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	366
GI	7228457	Score	598
Exons	1..366		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	53774	Seq. ID	OJ990615_10.0419.C23
Gene No.	113067	Strand	-
Start	1	End	545
Name	OJ990615_10.0419.C23.o1.gs	Method	GENSCAN
Start	31	End	545
GI	none	Score	.79
Exons	31..411, 441..545		

Seq. No.	53775	Seq. ID	OJ990615_10.0419.C25
Gene No.	113068	Strand	-
Start	1	End	757
Name	OJ990615_10.0419.C25.o1.np	Method	AAT/NAP
Start	1	End	757
GI	6539558	Score	579
Exons	1..757		
GI Descrip.	(AP000836) Similar to putative polyprotein (AC006248) [Oryza sativa]		

Seq. No.	53775	Seq. ID	OJ990615_10.0419.C25
Gene No.	113068	Strand	-
Start	1	End	757
Name	OJ990615_10.0419.C25.o1.gs	Method	GENSCAN
Start	140	End	704
GI	none	Score	.89

Exons	140..704		
Seq. No.	53775	Seq. ID	OJ990615_10.0419.C25
Gene No.	113068	Strand	-
Start	1	End	757
Name	OJ990615_10.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	579	End	756
GI	none	Score	132
Exons	579..755, 583..756		
Seq. No.	53776	Seq. ID	OJ990615_10.0419.C26
Gene No.	113069	Strand	+
Start	1082	End	1165
Name	OJ990615_10.0419.C26.o1.gp	Method	AAT/GAP
Start	1082	End	1165
GI	82303_1.R1084	Score	168
Exons	1082..1165		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		
Seq. No.	53777	Seq. ID	OJ990615_10.0419.C27
Gene No.	113070	Strand	+
Start	305	End	353
Name	OJ990615_10.0419.C27.o1.gs	Method	GENSCAN
Start	305	End	353
GI	none	Score	.42
Exons	305..353		
Seq. No.	53778	Seq. ID	OJ990615_10.0419.C38
Gene No.	113071	Strand	+
Start	536	End	1021
Name	OJ990615_10.0419.C38.o1.np	Method	AAT/NAP
Start	536	End	1021
GI	7523517	Score	198
Exons	536..823, 967..1021		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		
Seq. No.	53778	Seq. ID	OJ990615_10.0419.C38
Gene No.	113072	Strand	+
Start	2469	End	7310
Name	OJ990615_10.0419.C38.o2.np	Method	AAT/NAP
Start	2469	End	7310
GI	7228457	Score	3154
Exons	2469..4011, 4066..5725, 5792..7310		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	53778	Seq. ID	OJ990615_10.0419.C38
Gene No.	113073	Strand	-
Start	7930	End	8447
Name	OJ990615_10.0419.C38.o6.tw	Method	TBLASTX:Wheat
Start	2481	End	2876
GI	none	Score	59
Exons	2481..2531, 2532..2645, 2543..2593, 2619..2876, 2631..2840, 2651..2875		

Seq. No.	53778	Seq. ID	OJ990615_10.0419.C38
Gene No.	113073	Strand	-
Start	7930	End	8447
Name	OJ990615_10.0419.C38.o4.tm	Method	TBLASTX:Maize
Start	2526	End	2765
GI	none	Score	197
Exons	2526..2765		

Seq. No.	53778	Seq. ID	OJ990615_10.0419.C38
Gene No.	113073	Strand	-
Start	7930	End	8447
Name	OJ990615_10.0419.C38.o4.tw	Method	TBLASTX:Wheat
Start	3510	End	3965
GI	none	Score	143
Exons	3510..3692, 3518..3619, 3729..3965, 3731..3847, 3741..3950, 3890..3955		

Seq. No.	53778	Seq. ID	OJ990615_10.0419.C38
Gene No.	113073	Strand	-
Start	7930	End	8447
Name	OJ990615_10.0419.C38.o1.tw	Method	TBLASTX:Wheat
Start	4157	End	4613
GI	none	Score	555
Exons	4157..4612, 4158..4613		

Seq. No.	53778	Seq. ID	OJ990615_10.0419.C38
Gene No.	113073	Strand	-
Start	7930	End	8447
Name	OJ990615_10.0419.C38.o2.ts	Method	TBLASTX:Soybean
Start	4197	End	4562
GI	none	Score	117
Exons	4197..4421, 4428..4562		

Seq. No.	53778	Seq. ID	OJ990615_10.0419.C38
Gene No.	113073	Strand	-
Start	7930	End	8447
Name	OJ990615_10.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	4287	End	4643
GI	none	Score	415
Exons	4287..4643, 4349..4642		

Seq. No.	53778	Seq. ID	OJ990615_10.0419.C38
Gene No.	113073	Strand	-
Start	7930	End	8447
Name	OJ990615_10.0419.C38.o3.tm	Method	TBLASTX:Maize
Start	4671	End	5053
GI	none	Score	247
Exons	4671..4961, 4838..4948, 4940..5053		

Seq. No.	53778	Seq. ID	OJ990615_10.0419.C38
Gene No.	113073	Strand	-
Start	7930	End	8447
Name	OJ990615_10.0419.C38.o2.tw	Method	TBLASTX:Wheat
Start	4728	End	5151
GI	none	Score	268
Exons	4728..4952, 4732..4884, 4827..4922, 4834..4980, 4838..4948, 4955..5149, 4955..5116, 4957..5151		

Seq. No.	53778	Seq. ID	OJ990615_10.0419.C38
Gene No.	113073	Strand	-
Start	7930	End	8447
Name	OJ990615_10.0419.C38.o1.ts	Method	TBLASTX:Soybean
Start	4782	End	5206
GI	none	Score	182
Exons	4782..4970, 4841..4960, 4958..5206		

Seq. No.	53778	Seq. ID	OJ990615_10.0419.C38
Gene No.	113073	Strand	-
Start	7930	End	8447
Name	OJ990615_10.0419.C38.o7.tw	Method	TBLASTX:Wheat
Start	5296	End	5704
GI	none	Score	203
Exons	5296..5523, 5297..5521, 5531..5704		

Seq. No.	53778	Seq. ID	OJ990615_10.0419.C38
Gene No.	113073	Strand	-
Start	7930	End	8447
Name	OJ990615_10.0419.C38.o8.tw	Method	TBLASTX:Wheat
Start	5708	End	6063
GI	none	Score	193
Exons	5708..6001, 5728..6063		

Seq. No.	53778	Seq. ID	OJ990615_10.0419.C38
Gene No.	113073	Strand	-
Start	7930	End	8447
Name	OJ990615_10.0419.C38.o2.tm	Method	TBLASTX:Maize
Start	6206	End	6513
GI	none	Score	320
Exons	6206..6511, 6223..6513		

Seq. No.	53778	Seq. ID	OJ990615_10.0419.C38
Gene No.	113073	Strand	-
Start	7930	End	8447
Name	OJ990615_10.0419.C38.o5.tw	Method	TBLASTX:Wheat
Start	6337	End	6691
GI	none	Score	335
Exons	6337..6393, 6338..6691, 6439..6681		

Seq. No.	53778	Seq. ID	OJ990615_10.0419.C38
Gene No.	113073	Strand	-
Start	7930	End	8447
Name	OJ990615_10.0419.C38.o3.tw	Method	TBLASTX:Wheat
Start	6718	End	7301
GI	none	Score	345
Exons	6718..6816, 6725..7153, 6862..6969, 7170..7301, 7175..7300		

Seq. No.	53778	Seq. ID	OJ990615_10.0419.C38
Gene No.	113073	Strand	-
Start	7930	End	8447
Name	OJ990615_10.0419.C38.o2.gs	Method	GENSCAN
Start	7930	End	8447
GI	none	Score	.61
Exons	7930..8289, 8356..8447		

Seq. No.	53779	Seq. ID	OJ990615_10.0419.C40
Gene No.	113074	Strand	+
Start	1	End	779
Name	OJ990615_10.0419.C40.o1.np	Method	AAT/NAP
Start	1	End	779
GI	7228456	Score	1188
Exons	1..779		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	53779	Seq. ID	OJ990615_10.0419.C40
Gene No.	113074	Strand	+
Start	1	End	779
Name	OJ990615_10.0419.C40.o1.gs	Method	GENSCAN
Start	201	End	722
GI	none	Score	.45
Exons	201..722		

Seq. No.	53780	Seq. ID	OJ990615_10.0419.C42
Gene No.	113075	Strand	-
Start	654	End	797
Name	OJ990615_10.0419.C42.o1.gs	Method	GENSCAN
Start	654	End	797
GI	none	Score	.95
Exons	654..797		

Seq. No.	53781	Seq. ID	OJ990615_10.0419.C43
Gene No.	113076	Strand	+
Start	809	End	5194
Name	OJ990615_10.0419.C43.o1.gs	Method	GENSCAN
Start	809	End	5194
GI	none	Score	.56
Exons	809..895, 1376..1488, 1991..2117, 2385..2670, 3308..3952, 5187..5194		

Seq. No.	53781	Seq. ID	OJ990615_10.0419.C43
Gene No.	113077	Strand	-
Start	1	End	3763
Name	OJ990615_10.0419.C43.o1.np	Method	AAT/NAP
Start	1	End	3763
GI	2342690	Score	101
Exons	1..345, 424..494, 608..650, 3727..3763		
GI Descrip.	(AC000106) Similar to Homo copine I (gb|U83246). [Arabidopsis thaliana]		

Seq. No.	53782	Seq. ID	OJ990615_10.0419.C45
Gene No.	113078	Strand	+
Start	2171	End	2482
Name	OJ990615_10.0419.C45.o3.np	Method	AAT/NAP
Start	2171	End	2482
GI	7523517	Score	213
Exons	2171..2482		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	53782	Seq. ID	OJ990615_10.0419.C45
Gene No.	113079	Strand	-
Start	1	End	2475
Name	OJ990615_10.0419.C45.o1.np	Method	AAT/NAP

Start	1	End	1767
GI	6721561	Score	584
Exons	1..350, 420..478, 549..734, 1699..1767		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53782	Seq. ID	OJ990615_10.0419.C45
Gene No.	113079	Strand	-
Start	1	End	2475
Name	OJ990615_10.0419.C45.o1.gs	Method	GENSCAN
Start	102	End	2475
GI	none	Score	.85
Exons	102..350, 420..478, 549..734, 801..925, 1092..1223, 1626..1762, 1977..2112, 2391..2475		

Seq. No.	53782	Seq. ID	OJ990615_10.0419.C45
Gene No.	113079	Strand	-
Start	1	End	2475
Name	OJ990615_10.0419.C45.o2.np	Method	AAT/NAP
Start	150	End	1725
GI	6721558	Score	233
Exons	150..360, 801..925, 1626..1725		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	53783	Seq. ID	OJ990615_10.0419.C46
Gene No.	113080	Strand	+
Start	1	End	1041
Name	OJ990615_10.0419.C46.o1.np	Method	AAT/NAP
Start	1	End	1041
GI	7248394	Score	263
Exons	1..295, 665..1041		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	53784	Seq. ID	OJ990615_10.0419.C47
Gene No.	113081	Strand	+
Start	3975	End	4254
Name	OJ990615_10.0419.C47.o3.np	Method	AAT/NAP
Start	3975	End	4254
GI	7228456	Score	437
Exons	3975..4254		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	53784	Seq. ID	OJ990615_10.0419.C47
Gene No.	113082	Strand	-
Start	543	End	4254
Name	OJ990615_10.0419.C47.o1.gs	Method	GENSCAN
Start	543	End	4066
GI	none	Score	.52

Exons	543..627, 1181..1337, 2419..2487, 2848..2937, 3037..3109, 3930..4066		
Seq. No.	53784	Seq. ID	OJ990615_10.0419.C47
Gene No.	113082	Strand	-
Start	543	End	4254
Name	OJ990615_10.0419.C47.o2.np	Method	AAT/NAP
Start	2541	End	4254
GI	5042454	Score	281
Exons	2541..2594, 2848..3031, 3602..3720, 3938..4100, 4221..4254		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		
Seq. No.	53785	Seq. ID	OJ990615_10.0419.C48
Gene No.	113083	Strand	+
Start	1	End	1378
Name	OJ990615_10.0419.C48.o1.np	Method	AAT/NAP
Start	1	End	1378
GI	5295971	Score	303
Exons	1..30, 946..1378		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		
Seq. No.	53785	Seq. ID	OJ990615_10.0419.C48
Gene No.	113083	Strand	+
Start	1	End	1378
Name	OJ990615_10.0419.C48.o1.gs	Method	GENSCAN
Start	823	End	1329
GI	none	Score	1
Exons	823..1329		
Seq. No.	53785	Seq. ID	OJ990615_10.0419.C48
Gene No.	113083	Strand	+
Start	1	End	1378
Name	OJ990615_10.0419.C48.o1.tm	Method	TBLASTX:Maize
Start	957	End	1242
GI	none	Score	217
Exons	957..1229, 973..1242		
Seq. No.	53786	Seq. ID	OJ990615_10.0419.C49
Gene No.	113084	Strand	+
Start	1	End	3001
Name	OJ990615_10.0419.C49.o1.np	Method	AAT/NAP
Start	1	End	212
GI	6714305	Score	101
Exons	1..212		
GI Descrip.	(AC013354) F15H18.4 [Arabidopsis thaliana]		
Seq. No.	53786	Seq. ID	OJ990615_10.0419.C49
Gene No.	113084	Strand	+
Start	1	End	3001
Name	OJ990615_10.0419.C49.o1.gs	Method	GENSCAN
Start	94	End	3001
GI	none	Score	.48
Exons	94..209, 935..1122, 2791..3001		
Seq. No.	53786	Seq. ID	OJ990615_10.0419.C49

Gene No.	113084	Strand	+
Start	1	End	3001
Name	OJ990615_10.0419.C49.o1.gp	Method	AAT/GAP
Start	171	End	573
GI	1631448	Score	416
Exons	171..209, 314..573		

Seq. No.	53787	Seq. ID	OJ990615_10.0419.C51
Gene No.	113085	Strand	+
Start	93	End	253
Name	OJ990615_10.0419.C51.o1.gs	Method	GENSCAN
Start	93	End	253
GI	none	Score	.52
Exons	93..253		

Seq. No.	53787	Seq. ID	OJ990615_10.0419.C51
Gene No.	113086	Strand	+
Start	648	End	754
Name	OJ990615_10.0419.C51.o2.gp	Method	AAT/GAP
Start	648	End	754
GI	5816518	Score	155
Exons	648..754		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 3.0e-40 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	53787	Seq. ID	OJ990615_10.0419.C51
Gene No.	113087	Strand	+
Start	762	End	991
Name	OJ990615_10.0419.C51.o3.gp	Method	AAT/GAP
Start	762	End	991
GI	3761181	Score	358
Exons	762..991		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	53787	Seq. ID	OJ990615_10.0419.C51
Gene No.	113088	Strand	+
Start	1059	End	3267
Name	OJ990615_10.0419.C51.o2.np	Method	AAT/NAP
Start	888	End	3267
GI	7106512	Score	1644
Exons	888..948, 1022..1195, 1318..1428, 2233..3267		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53787	Seq. ID	OJ990615_10.0419.C51
Gene No.	113088	Strand	+
Start	1059	End	3267
Name	OJ990615_10.0419.C51.o2.gs	Method	GENSCAN
Start	1059	End	3185
GI	none	Score	.4
Exons	1059..1082, 1622..1774, 1970..2056, 2172..3185		

Seq. No.	53787	Seq. ID	OJ990615_10.0419.C51
Gene No.	113088	Strand	+
Start	1059	End	3267
Name	OJ990615_10.0419.C51.o4.gp	Method	AAT/GAP

Start	1757	End	2056
GI	uC-osflcyp053g09b1	Score	502
Exons	1757..2056		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	53787	Seq. ID	OJ990615_10.0419.C51
Gene No.	113089	Strand	-
Start	1	End	1970
Name	OJ990615_10.0419.C51.o1.np	Method	AAT/NAP
Start	1	End	1970
GI	5733885	Score	136
Exons	1..294, 406..507, 1922..1970		
GI Descrip.	(AC007932) ESTs gb|H37217 and gb|T22141 come from this gene. [Arabidopsis thaliana]		

Seq. No.	53787	Seq. ID	OJ990615_10.0419.C51
Gene No.	113089	Strand	-
Start	1	End	1970
Name	OJ990615_10.0419.C51.o1.tm	Method	TBLASTX:Maize
Start	15	End	527
GI	none	Score	68
Exons	15..86, 35..85, 78..236, 78..242, 80..241, 243..317, 244..327, 244..315, 383..466, 396..467, 397..468, 471..527		

Seq. No.	53787	Seq. ID	OJ990615_10.0419.C51
Gene No.	113089	Strand	-
Start	1	End	1970
Name	OJ990615_10.0419.C51.o1.gp	Method	AAT/GAP
Start	47	End	167
GI	2797635	Score	192
Exons	47..167		

Seq. No.	53788	Seq. ID	OJ990615_10.0419.C52
Gene No.	113090	Strand	+
Start	1	End	1161
Name	OJ990615_10.0419.C52.o1.np	Method	AAT/NAP
Start	1	End	1157
GI	7106512	Score	1235
Exons	1..904, 959..1157		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53788	Seq. ID	OJ990615_10.0419.C52
Gene No.	113090	Strand	+
Start	1	End	1161
Name	OJ990615_10.0419.C52.o1.gs	Method	GENSCAN
Start	17	End	1161
GI	none	Score	.79
Exons	17..701, 959..1161		

Seq. No.	53788	Seq. ID	OJ990615_10.0419.C52
Gene No.	113091	Strand	-
Start	1476	End	1628
Name	OJ990615_10.0419.C52.o2.np	Method	AAT/NAP
Start	1476	End	1628
GI	7106513	Score	271

Exons	1476..1628		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		
Seq. No.	53789	Seq. ID	OJ990615_10.0419.C53
Gene No.	113092	Strand	-
Start	889	End	1032
Name	OJ990615_10.0419.C53.o1.gs	Method	GENSCAN
Start	889	End	1032
GI	none	Score	.82
Exons	889..1032		
Seq. No.	53789	Seq. ID	OJ990615_10.0419.C53
Gene No.	113093	Strand	
Start	944	End	1194
Name	OJ990615_10.0419.C53.o1.tm	Method	TBLASTX:Maize
Start	944	End	1194
GI	none	Score	95
Exons	944..1030, 945..1031, 1114..1194, 1116..1193		
Seq. No.	53790	Seq. ID	OJ990615_10.0419.C59
Gene No.	113094	Strand	-
Start	678	End	779
Name	OJ990615_10.0419.C59.o1.gs	Method	GENSCAN
Start	678	End	779
GI	none	Score	.78
Exons	678..779		
Seq. No.	53791	Seq. ID	OJ990615_10.0419.C64
Gene No.	113095	Strand	-
Start	152	End	437
Name	OJ990615_10.0419.C64.o1.gs	Method	GENSCAN
Start	152	End	437
GI	none	Score	.94
Exons	152..272, 393..437		
Seq. No.	53792	Seq. ID	OJ990615_10.0419.C66
Gene No.	113096	Strand	+
Start	171	End	572
Name	OJ990615_10.0419.C66.o1.gs	Method	GENSCAN
Start	171	End	572
GI	none	Score	.91
Exons	171..375, 417..572		
Seq. No.	53793	Seq. ID	OJ990615_10.0419.C67
Gene No.	113097	Strand	+
Start	1	End	2173
Name	OJ990615_10.0419.C67.o1.np	Method	AAT/NAP
Start	1	End	2173
GI	6714305	Score	399
Exons	1..87, 907..1018, 1221..1395, 1529..1687, 1995..2173		
GI Descrip.	(AC013354) F15H18.4 [Arabidopsis thaliana]		
Seq. No.	53793	Seq. ID	OJ990615_10.0419.C67
Gene No.	113097	Strand	+
Start	1	End	2173
Name	OJ990615_10.0419.C67.o1.gs	Method	GENSCAN
Start	894	End	1670

GI	none	Score	.89
Exons	894..1065, 1229..1389, 1523..1670		

Seq. No.	53793	Seq. ID	OJ990615_10.0419.C67
Gene No.	113097	Strand	+
Start	1	End	2173
Name	OJ990615_10.0419.C67.o1.ts	Method	TBLASTX:Soybean
Start	1228	End	1666
GI	none	Score	97
Exons	1228..1338, 1324..1395, 1516..1644, 1521..1664, 1522..1638, 1529..1666		

Seq. No.	53793	Seq. ID	OJ990615_10.0419.C67
Gene No.	113097	Strand	+
Start	1	End	2173
Name	OJ990615_10.0419.C67.o1.tm	Method	TBLASTX:Maize
Start	1522	End	2171
GI	none	Score	161
Exons	1522..1638, 1529..1648, 1550..1648, 1995..2171, 2000..2164		

Seq. No.	53793	Seq. ID	OJ990615_10.0419.C67
Gene No.	113097	Strand	+
Start	1	End	2173
Name	OJ990615_10.0419.C67.o1.tw	Method	TBLASTX:Wheat
Start	1523	End	2171
GI	none	Score	178
Exons	1523..1636, 1525..1635, 1998..2171, 2006..2134		

Seq. No.	53793	Seq. ID	OJ990615_10.0419.C67
Gene No.	113097	Strand	+
Start	1	End	2173
Name	OJ990615_10.0419.C67.o1.tc	Method	TBLASTX:Cress
Start	1586	End	2171
GI	none	Score	84
Exons	1586..1639, 1998..2171, 2006..2167, 2037..2168		

Seq. No.	53793	Seq. ID	OJ990615_10.0419.C67
Gene No.	113097	Strand	+
Start	1	End	2173
Name	OJ990615_10.0419.C67.o2.ts	Method	TBLASTX:Soybean
Start	1995	End	2171
GI	none	Score	200
Exons	1995..2171, 2018..2164		

Seq. No.	53794	Seq. ID	OJ990615_10.0419.C68
Gene No.	113098	Strand	+
Start	217	End	683
Name	OJ990615_10.0419.C68.o1.gp	Method	AAT/GAP
Start	217	End	683
GI	1631448	Score	618
Exons	217..302, 428..683		

Seq. No.	53794	Seq. ID	OJ990615_10.0419.C68
Gene No.	113099	Strand	+
Start	1721	End	2197
Name	OJ990615_10.0419.C68.o2.gp	Method	AAT/GAP
Start	1721	End	2197

GI	2338_1.R1084	Score	109
Exons	1721..1821, 2179..2197		
GI Descrip.	'5803242/dbj|AP000399.1|AP000399 2.0e-40 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04'		

Seq. No.	53794	Seq. ID	OJ990615_10.0419.C68
Gene No.	113100	Strand	-
Start	1100	End	1264
Name	OJ990615_10.0419.C68.o1.gs	Method	GENSCAN
Start	1100	End	1264
GI	none	Score	.85
Exons	1100..1264		

Seq. No.	53795	Seq. ID	OJ990615_10.0419.C74
Gene No.	113101	Strand	-
Start	1	End	766
Name	OJ990615_10.0419.C74.o1.np	Method	AAT/NAP
Start	1	End	766
GI	7106512	Score	1003
Exons	1..766		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53795	Seq. ID	OJ990615_10.0419.C74
Gene No.	113101	Strand	-
Start	1	End	766
Name	OJ990615_10.0419.C74.o1.gs	Method	GENSCAN
Start	69	End	754
GI	none	Score	.51
Exons	69..754		

Seq. No.	53796	Seq. ID	OJ990615_10.0419.C82
Gene No.	113102	Strand	-
Start	537	End	570
Name	OJ990615_10.0419.C82.o1.gs	Method	GENSCAN
Start	537	End	570
GI	none	Score	.7
Exons	537..570		

Seq. No.	53797	Seq. ID	OJ990615_10.0419.C83
Gene No.	113103	Strand	+
Start	1	End	2679
Name	OJ990615_10.0419.C83.o1.np	Method	AAT/NAP
Start	1	End	2305
GI	6572063	Score	282
Exons	1..79, 387..597, 949..999, 1112..1371, 1796..1928, 2015..2305		
GI Descrip.	(AL133452) mucin-like protein [Arabidopsis thaliana]		

Seq. No.	53797	Seq. ID	OJ990615_10.0419.C83
Gene No.	113103	Strand	+
Start	1	End	2679
Name	OJ990615_10.0419.C83.o1.gp	Method	AAT/GAP
Start	79	End	525
GI	none	Score	608
Exons	79..298, 382..525		

Seq. No.	53797	Seq. ID	OJ990615_10.0419.C83

Gene No.	113103	Strand	+
Start	1	End	2679
Name	OJ990615_10.0419.C83.o1.gs	Method	GENSCAN
Start	155	End	2320
GI	none	Score	.97
Exons	155..298, 382..597, 949..1019, 1135..1371, 1796..1928, 2018..2320		

Seq. No.	53797	Seq. ID	OJ990615_10.0419.C83
Gene No.	113103	Strand	+
Start	1	End	2679
Name	OJ990615_10.0419.C83.o2.tm	Method	TBLASTX:Maize
Start	173	End	597
GI	none	Score	61
Exons	173..229, 379..450, 442..492, 499..597, 501..596		

Seq. No.	53797	Seq. ID	OJ990615_10.0419.C83
Gene No.	113103	Strand	+
Start	1	End	2679
Name	OJ990615_10.0419.C83.o1.ts	Method	TBLASTX:Soybean
Start	379	End	2283
GI	none	Score	76
Exons	379..447, 433..501, 484..597, 1132..1374, 1133..1372, 1794..1937, 1799..1921, 1997..2278, 2053..2283		

Seq. No.	53797	Seq. ID	OJ990615_10.0419.C83
Gene No.	113103	Strand	+
Start	1	End	2679
Name	OJ990615_10.0419.C83.o1.tm	Method	TBLASTX:Maize
Start	1198	End	1897
GI	none	Score	102
Exons	1198..1275, 1199..1276, 1267..1371, 1268..1372, 1289..1372, 1793..1858, 1794..1859, 1794..1871, 1860..1895, 1862..1897		

Seq. No.	53797	Seq. ID	OJ990615_10.0419.C83
Gene No.	113103	Strand	+
Start	1	End	2679
Name	OJ990615_10.0419.C83.o2.gp	Method	AAT/GAP
Start	1798	End	2679
GI	3776_1.R1084	Score	1530
Exons	1798..1928, 2018..2679		
GI Descrip.	'3894193 2.0e-09 (AC005662) putative strictosidine synthase [Arabidopsis thaliana]'		

Seq. No.	53798	Seq. ID	OJ990615_10.0419.C85
Gene No.	113104	Strand	+
Start	1	End	1747
Name	OJ990615_10.0419.C85.o1.np	Method	AAT/NAP
Start	1	End	1747
GI	7228438	Score	1960
Exons	1..417, 507..805, 882..1140, 1233..1415, 1573..1747		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	53798	Seq. ID	OJ990615_10.0419.C85
Gene No.	113104	Strand	+

Start	1	End	1747
Name	OJ990615_10.0419.C85.o1.gs	Method	GENSCAN
Start	91	End	1638
GI	none	Score	.82
Exons	91..417, 507..805, 882..1140, 1233..1415, 1573..1638		

Seq. No.	53798	Seq. ID	OJ990615_10.0419.C85
Gene No.	113104	Strand	+
Start	1	End	1747
Name	OJ990615_10.0419.C85.o1.gp	Method	AAT/GAP
Start	633	End	1132
GI	LIB3475-007-P1-K1-G8	Score	801
Exons	633..805, 882..1132		
GI Descrip.	'5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	53799	Seq. ID	OJ990615_10.0419.C86
Gene No.	113105	Strand	+
Start	84	End	209
Name	OJ990615_10.0419.C86.o1.gs	Method	GENSCAN
Start	84	End	209
GI	none	Score	.87
Exons	84..209		

Seq. No.	53799	Seq. ID	OJ990615_10.0419.C86
Gene No.	113106	Strand	-
Start	1	End	176
Name	OJ990615_10.0419.C86.o1.gp	Method	AAT/GAP
Start	1	End	162
GI	7406_1.R1084	Score	252
Exons	1..162		
GI Descrip.	'1122315/emb|CAA63901| 7.0e-10 (X94191) heat shock protein 17.0 [Pennisetum glaucum]'		

Seq. No.	53799	Seq. ID	OJ990615_10.0419.C86
Gene No.	113106	Strand	-
Start	1	End	176
Name	OJ990615_10.0419.C86.o1.np	Method	AAT/NAP
Start	1	End	176
GI	6721543	Score	85
Exons	1..176		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	53799	Seq. ID	OJ990615_10.0419.C86
Gene No.	113107	Strand	-
Start	2157	End	2359
Name	OJ990615_10.0419.C86.o2.gs	Method	GENSCAN
Start	2157	End	2359
GI	none	Score	.48
Exons	2157..2359		

Seq. No.	53800	Seq. ID	OJ990615_10.0419.C87
Gene No.	113108	Strand	-
Start	1	End	976
Name	OJ990615_10.0419.C87.o1.gp	Method	AAT/GAP
Start	1	End	976

GI	49507_1.R1084	Score	379
Exons	1..91, 830..976		
GI Descrip.	'4006829/gb|AAC95171.1| 2.0e-55 (AC005970) putative protein kinase [Arabidopsis thaliana]'		

Seq. No.	53800	Seq. ID	OJ990615_10.0419.C87
Gene No.	113108	Strand	-
Start	1	End	976
Name	OJ990615_10.0419.C87.o1.np	Method	AAT/NAP
Start	1	End	976
GI	4006829	Score	262
Exons	1..92, 831..976		
GI Descrip.	(AC005970) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	53800	Seq. ID	OJ990615_10.0419.C87
Gene No.	113108	Strand	-
Start	1	End	976
Name	OJ990615_10.0419.C87.o1.ts	Method	TBLASTX:Soybean
Start	21	End	960
GI	none	Score	84
Exons	21..92, 22..93, 811..960, 831..959		

Seq. No.	53800	Seq. ID	OJ990615_10.0419.C87
Gene No.	113108	Strand	-
Start	1	End	976
Name	OJ990615_10.0419.C87.o1.tc	Method	TBLASTX:Cress
Start	24	End	953
GI	none	Score	71
Exons	24..92, 28..87, 811..939, 831..953		

Seq. No.	53800	Seq. ID	OJ990615_10.0419.C87
Gene No.	113108	Strand	-
Start	1	End	976
Name	OJ990615_10.0419.C87.o1.tm	Method	TBLASTX:Maize
Start	814	End	962
GI	none	Score	150
Exons	814..960, 831..962, 831..959		

Seq. No.	53800	Seq. ID	OJ990615_10.0419.C87
Gene No.	113108	Strand	-
Start	1	End	976
Name	OJ990615_10.0419.C87.o1.gs	Method	GENSCAN
Start	831	End	908
GI	none	Score	.62
Exons	831..908		

Seq. No.	53801	Seq. ID	OJ990615_10.0419.C88
Gene No.	113109	Strand	-
Start	1	End	329
Name	OJ990615_10.0419.C88.o1.np	Method	AAT/NAP
Start	1	End	329
GI	7485509	Score	89
Exons	1..60, 248..329		
GI Descrip.	hypothetical protein F15B8.40 - Arabidopsis thaliana gi|4678270|emb|CAB41178.1| (AL049660) protein kinase-like protein [Arabidopsis thaliana]		

Seq. No.	53801	Seq. ID	OJ990615_10.0419.C88
Gene No.	113109	Strand	-
Start	1	End	329
Name	OJ990615_10.0419.C88.o1.gs	Method	GENSCAN
Start	49	End	329
GI	none	Score	.67
Exons	49..169, 257..329		

Seq. No.	53801	Seq. ID	OJ990615_10.0419.C88
Gene No.	113110	Strand	
Start	275	End	467
Name	OJ990615_10.0419.C88.o1.tm	Method	TBLASTX:Maize
Start	275	End	467
GI	none	Score	252
Exons	275..466, 276..467		

Seq. No.	53802	Seq. ID	OJ990615_10.0419.C89
Gene No.	113111	Strand	-
Start	1	End	1320
Name	OJ990615_10.0419.C89.o1.np	Method	AAT/NAP
Start	1	End	1319
GI	4585873	Score	154
Exons	1..19, 1184..1319		
GI Descrip.	(AC005850) Putative protein kinase [Arabidopsis thaliana]		

Seq. No.	53802	Seq. ID	OJ990615_10.0419.C89
Gene No.	113111	Strand	-
Start	1	End	1320
Name	OJ990615_10.0419.C89.o1.gs	Method	GENSCAN
Start	149	End	1319
GI	none	Score	.49
Exons	149..165, 1184..1319		

Seq. No.	53802	Seq. ID	OJ990615_10.0419.C89
Gene No.	113111	Strand	-
Start	1	End	1320
Name	OJ990615_10.0419.C89.o1.tc	Method	TBLASTX:Cress
Start	1182	End	1320
GI	none	Score	67
Exons	1182..1319, 1192..1320		

Seq. No.	53802	Seq. ID	OJ990615_10.0419.C89
Gene No.	113111	Strand	-
Start	1	End	1320
Name	OJ990615_10.0419.C89.o1.tm	Method	TBLASTX:Maize
Start	1182	End	1319
GI	none	Score	200
Exons	1182..1319		

Seq. No.	53802	Seq. ID	OJ990615_10.0419.C89
Gene No.	113111	Strand	-
Start	1	End	1320
Name	OJ990615_10.0419.C89.o1.ts	Method	TBLASTX:Soybean
Start	1188	End	1319
GI	none	Score	214
Exons	1188..1319		

Seq. No.	53803	Seq. ID	OJ990615_10.0419.C92
Gene No.	113112	Strand	-
Start	1	End	1355
Name	OJ990615_10.0419.C92.o1.np	Method	AAT/NAP
Start	1	End	1355
GI	6648172	Score	205
Exons	1..59, 817..901, 1180..1355		
GI Descrip.	(AC010926) putative exportin, tRNA (nuclear export receptor for tRNAs) [Arabidopsis thaliana]		

Seq. No.	53803	Seq. ID	OJ990615_10.0419.C92
Gene No.	113112	Strand	-
Start	1	End	1355
Name	OJ990615_10.0419.C92.o1.gs	Method	GENSCAN
Start	803	End	1353
GI	none	Score	.69
Exons	803..901, 1005..1070, 1180..1353		

Seq. No.	53804	Seq. ID	OJ990615_10.0419.C95
Gene No.	113113	Strand	+
Start	162	End	412
Name	OJ990615_10.0419.C95.o1.gp	Method	AAT/GAP
Start	162	End	412
GI	2798070	Score	196
Exons	162..199, 295..412		

Seq. No.	53805	Seq. ID	OJ990615_10.0419.C96
Gene No.	113114	Strand	+
Start	1082	End	1447
Name	OJ990615_10.0419.C96.o1.gs	Method	GENSCAN
Start	1082	End	1447
GI	none	Score	.65
Exons	1082..1127, 1257..1447		

Seq. No.	53805	Seq. ID	OJ990615_10.0419.C96
Gene No.	113115	Strand	-
Start	2771	End	3321
Name	OJ990615_10.0419.C96.o2.gs	Method	GENSCAN
Start	2771	End	3321
GI	none	Score	.63
Exons	2771..2859, 3201..3321		

Seq. No.	53806	Seq. ID	OJ990615_10.0419.C99
Gene No.	113116	Strand	+
Start	670	End	1069
Name	OJ990615_10.0419.C99.o1.np	Method	AAT/NAP
Start	670	End	1068
GI	4006829	Score	221
Exons	670..1068		
GI Descrip.	(AC005970) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	53806	Seq. ID	OJ990615_10.0419.C99
Gene No.	113116	Strand	+
Start	670	End	1069
Name	OJ990615_10.0419.C99.o1.ts	Method	TBLASTX:Soybean
Start	838	End	1069
GI	none	Score	187

Exons	838..990, 840..1022, 1011..1064, 1013..1069		
Seq. No.	53807	Seq. ID	OJ990615_10.0419.C101
Gene No.	113117	Strand	-
Start	1345	End	1476
Name	OJ990615_10.0419.C101.o2.gs	Method	GENSCAN
Start	1345	End	1476
GI	none	Score	.85
Exons	1345..1476		
Seq. No.	53808	Seq. ID	OJ990615_10.0419.C103
Gene No.	113118	Strand	-
Start	28	End	726
Name	OJ990615_10.0419.C103.o1.gp	Method	AAT/GAP
Start	28	End	714
GI	19595_1.R1084	Score	1314
Exons	28..714		
GI Descrip.	'3608481 2.0e-49 (AF088913) ribosomal protein L27a [Petunia x hybrida]'		
Seq. No.	53808	Seq. ID	OJ990615_10.0419.C103
Gene No.	113118	Strand	-
Start	28	End	726
Name	OJ990615_10.0419.C103.o1.ts	Method	TBLASTX:Soybean
Start	156	End	679
GI	none	Score	69
Exons	156..212, 271..327, 272..328, 313..678, 314..679		
Seq. No.	53808	Seq. ID	OJ990615_10.0419.C103
Gene No.	113118	Strand	-
Start	28	End	726
Name	OJ990615_10.0419.C103.o1.tw	Method	TBLASTX:Wheat
Start	167	End	702
GI	none	Score	159
Exons	167..379, 271..390, 331..381, 430..687, 434..697, 679..702		
Seq. No.	53808	Seq. ID	OJ990615_10.0419.C103
Gene No.	113118	Strand	-
Start	28	End	726
Name	OJ990615_10.0419.C103.o1.gs	Method	GENSCAN
Start	238	End	678
GI	none	Score	.73
Exons	238..678		
Seq. No.	53808	Seq. ID	OJ990615_10.0419.C103
Gene No.	113118	Strand	-
Start	28	End	726
Name	OJ990615_10.0419.C103.o1.np	Method	AAT/NAP
Start	241	End	678
GI	3608481	Score	615
Exons	241..678		
GI Descrip.	(AF088913) ribosomal protein L27a [Petunia x hybrida]		
Seq. No.	53808	Seq. ID	OJ990615_10.0419.C103
Gene No.	113118	Strand	-
Start	28	End	726
Name	OJ990615_10.0419.C103.o1.tc	Method	TBLASTX:Cress

Start	271	End	691
GI	none	Score	65
Exons	271..327, 272..325, 326..379,	328..390,	430..690, 434..691

Seq. No.	53808	Seq. ID	OJ990615_10.0419.C103
Gene No.	113118	Strand	-
Start	28	End	726
Name	OJ990615_10.0419.C103.o1.tm	Method	TBLASTX:Maize
Start	271	End	726
GI	none	Score	557
Exons	271..726, 272..697		

Seq. No.	53809	Seq. ID	OJ990615_10.0419.C105
Gene No.	113119	Strand	+
Start	1	End	636
Name	OJ990615_10.0419.C105.o1.np	Method	AAT/NAP
Start	1	End	636
GI	5852093	Score	70
Exons	1..57, 531..636		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	53810	Seq. ID	OJ990615_10.0419.C106
Gene No.	113120	Strand	+
Start	731	End	900
Name	OJ990615_10.0419.C106.o1.gs	Method	GENSCAN
Start	731	End	900
GI	none	Score	.75
Exons	731..900		

Seq. No.	53810	Seq. ID	OJ990615_10.0419.C106
Gene No.	113121	Strand	-
Start	3616	End	5619
Name	OJ990615_10.0419.C106.o1.gp	Method	AAT/GAP
Start	3398	End	3627
GI	3760905	Score	421
Exons	3398..3627		

Seq. No.	53810	Seq. ID	OJ990615_10.0419.C106
Gene No.	113121	Strand	-
Start	3616	End	5619
Name	OJ990615_10.0419.C106.o2.gs	Method	GENSCAN
Start	3616	End	5496
GI	none	Score	.86
Exons	3616..3951, 4078..4170, 5199..5273, 5407..5496		

Seq. No.	53810	Seq. ID	OJ990615_10.0419.C106
Gene No.	113121	Strand	-
Start	3616	End	5619
Name	OJ990615_10.0419.C106.o1.np	Method	AAT/NAP
Start	3622	End	5619
GI	6730751	Score	335
Exons	3622..3945, 4036..4170, 5199..5273, 5407..5619		
GI Descrip.	(AC016529) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53810	Seq. ID	OJ990615_10.0419.C106
Gene No.	113121	Strand	-
Start	3616	End	5619

Name	OJ990615_10.0419.C106.o1.tc	Method	TBLASTX:Cress
Start	3622	End	5255
GI	none	Score	93
Exons	3622..3804, 3623..3820, 3727..3948, 3776..3904, 4081..4173, 5193..5255		

Seq. No.	53810	Seq. ID	OJ990615_10.0419.C106
Gene No.	113121	Strand	-
Start	3616	End	5619
Name	OJ990615_10.0419.C106.o1.tm	Method	TBLASTX:Maize
Start	3628	End	4173
GI	none	Score	300
Exons	3628..3888, 3629..3889, 3913..3957, 3914..3952, 4105..4173		

Seq. No.	53810	Seq. ID	OJ990615_10.0419.C106
Gene No.	113121	Strand	-
Start	3616	End	5619
Name	OJ990615_10.0419.C106.o2.gp	Method	AAT/GAP
Start	5185	End	5577
GI	286763	Score	425
Exons	5185..5273, 5407..5577		

Seq. No.	53811	Seq. ID	OJ990615_10.0419.C107
Gene No.	113122	Strand	-
Start	1	End	4951
Name	OJ990615_10.0419.C107.o1.gp	Method	AAT/GAP
Start	1	End	634
GI	286763	Score	448
Exons	1..192, 567..634		

Seq. No.	53811	Seq. ID	OJ990615_10.0419.C107
Gene No.	113122	Strand	-
Start	1	End	4951
Name	OJ990615_10.0419.C107.o1.np	Method	AAT/NAP
Start	1	End	4951
GI	6730751	Score	875
Exons	1..192, 567..667, 1205..1282, 1617..1773, 1874..2142, 2596..2712, 2948..3037, 3139..3358, 3455..3604, 4741..4951		
GI Descrip.	(AC016529) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53811	Seq. ID	OJ990615_10.0419.C107
Gene No.	113122	Strand	-
Start	1	End	4951
Name	OJ990615_10.0419.C107.o1.ts	Method	TBLASTX:Soybean
Start	19	End	4951
GI	none	Score	68
Exons	19..198, 32..178, 564..662, 1209..1274, 1209..1283, 1210..1287, 1612..1773, 1616..1774, 1868..2143, 1983..2153, 2604..2693, 2611..2697, 2615..2707, 2949..3047, 2953..3015, 3135..3356, 3140..3400, 3143..3361, 3452..3550, 3453..3500, 3533..3604, 3561..3608, 4741..4950, 4742..4951		

Seq. No.	53811	Seq. ID	OJ990615_10.0419.C107
Gene No.	113122	Strand	-
Start	1	End	4951
Name	OJ990615_10.0419.C107.o1.gs	Method	GENSCAN
Start	22	End	4875

GI	none	Score	.76
Exons	22..192, 567..667, 1617..1773, 1874..2143, 2600..2712, 3038..3044, 3146..3313, 3455..3604, 4741..4875		

Seq. No.	53811	Seq. ID	OJ990615_10.0419.C107
Gene No.	113122	Strand	-
Start	1	End	4951
Name	OJ990615_10.0419.C107.o1.tm	Method	TBLASTX:Maize
Start	564	End	3000
GI	none	Score	70
Exons	564..614, 564..614, 565..615, 615..665, 616..666, 1172..1276, 1200..1283, 1207..1284, 1207..1305, 1612..1776, 1616..1774, 1853..2143, 1874..2146, 1875..2147, 1947..2144, 2597..2710, 2598..2711, 2599..2703, 2948..2998, 2953..3000, 2953..3000		

Seq. No.	53811	Seq. ID	OJ990615_10.0419.C107
Gene No.	113122	Strand	-
Start	1	End	4951
Name	OJ990615_10.0419.C107.o1.tc	Method	TBLASTX:Cress
Start	1949	End	3296
GI	none	Score	128
Exons	1949..2140, 1983..2138, 2010..2144, 2615..2731, 2949..3047, 3146..3295, 3159..3296		

Seq. No.	53811	Seq. ID	OJ990615_10.0419.C107
Gene No.	113122	Strand	-
Start	1	End	4951
Name	OJ990615_10.0419.C107.o2.tm	Method	TBLASTX:Maize
Start	3138	End	3627
GI	none	Score	266
Exons	3138..3356, 3143..3361, 3146..3361, 3452..3604, 3453..3605, 3462..3614, 3556..3627		

Seq. No.	53812	Seq. ID	OJ990615_10.0419.C108
Gene No.	113123	Strand	+
Start	495	End	709
Name	OJ990615_10.0419.C108.o1.gs	Method	GENSCAN
Start	495	End	709
GI	none	Score	.82
Exons	495..709		

Seq. No.	53813	Seq. ID	OJ990615_10.0419.C111
Gene No.	113124	Strand	-
Start	23	End	2611
Name	OJ990615_10.0419.C111.o1.gs	Method	GENSCAN
Start	23	End	2611
GI	none	Score	.95
Exons	23..192, 1156..1251, 1351..1755, 1793..2312, 2418..2611		

Seq. No.	53813	Seq. ID	OJ990615_10.0419.C111
Gene No.	113124	Strand	-
Start	23	End	2611
Name	OJ990615_10.0419.C111.o1.np	Method	AAT/NAP
Start	127	End	2584
GI	6730753	Score	984
Exons	127..432, 1156..1251, 1351..2344, 2423..2584		
GI Descrip.	(AC016529) unknown protein [Arabidopsis thaliana]		

Seq. No.	53813	Seq. ID	OJ990615_10.0419.C111
Gene No.	113124	Strand	-
Start	23	End	2611
Name	OJ990615_10.0419.C111.o1.tm	Method	TBLASTX:Maize
Start	292	End	2323
GI	none	Score	116
Exons	292..444, 296..427, 1153..1257, 1351..1482, 1552..1773, 1553..1792, 1836..1958, 1841..1915, 1925..2065, 2096..2167, 2234..2323		

Seq. No.	53813	Seq. ID	OJ990615_10.0419.C111
Gene No.	113124	Strand	-
Start	23	End	2611
Name	OJ990615_10.0419.C111.o2.ts	Method	TBLASTX:Soybean
Start	292	End	438
GI	none	Score	182
Exons	292..438		

Seq. No.	53813	Seq. ID	OJ990615_10.0419.C111
Gene No.	113124	Strand	-
Start	23	End	2611
Name	OJ990615_10.0419.C111.o1.ts	Method	TBLASTX:Soybean
Start	1351	End	2521
GI	none	Score	88
Exons	1351..1482, 1552..1773, 1553..1783, 1841..1915, 1854..1913, 1940..2002, 2216..2323, 2438..2521		

Seq. No.	53814	Seq. ID	OJ990615_10.0419.C112
Gene No.	113125	Strand	+
Start	2382	End	2909
Name	OJ990615_10.0419.C112.o1.np	Method	AAT/NAP
Start	2382	End	2909
GI	6539585	Score	133
Exons	2382..2553, 2836..2909		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	53814	Seq. ID	OJ990615_10.0419.C112
Gene No.	113126	Strand	+
Start	3326	End	6337
Name	OJ990615_10.0419.C112.o1.gs	Method	GENSCAN
Start	3326	End	6337
GI	none	Score	.52
Exons	3326..3669, 4327..4443, 4532..4648, 4726..4810, 4969..5092, 5253..5366, 5464..5625, 6231..6337		

Seq. No.	53814	Seq. ID	OJ990615_10.0419.C112
Gene No.	113126	Strand	+
Start	3326	End	6337
Name	OJ990615_10.0419.C112.o1.gp	Method	AAT/GAP
Start	3488	End	6054
GI	159_1.R1084	Score	1466
Exons	3488..3560, 4327..4443, 4532..4648, 4726..4810, 4969..5092, 5253..5366, 5464..5625, 6019..6054		
GI Descrip.	'3292830/emb|CAA19820.1| 1.0e-15 (AL031018) putative protein [Arabidopsis thaliana]'		

Seq. No.	53814	Seq. ID	OJ990615_10.0419.C112
Gene No.	113126	Strand	+
Start	3326	End	6337
Name	OJ990615_10.0419.C112.o1.tm	Method	TBLASTX:Maize
Start	4336	End	5626
GI	none	Score	104
Exons	4336..4443, 4344..4442, 4352..4456, 4352..4447, 4524..4646, 4531..4632, 4532..4648, 4535..4636, 4712..4810, 4723..4806, 4731..4811, 5213..5377, 5255..5365, 5459..5623, 5460..5624, 5460..5624, 5465..5626		

Seq. No.	53814	Seq. ID	OJ990615_10.0419.C112
Gene No.	113126	Strand	+
Start	3326	End	6337
Name	OJ990615_10.0419.C112.o2.tc	Method	TBLASTX:Cress
Start	4345	End	4646
GI	none	Score	114
Exons	4345..4446, 4355..4456, 4524..4646, 4532..4639		

Seq. No.	53814	Seq. ID	OJ990615_10.0419.C112
Gene No.	113126	Strand	+
Start	3326	End	6337
Name	OJ990615_10.0419.C112.o1.ts	Method	TBLASTX:Soybean
Start	4357	End	5624
GI	none	Score	106
Exons	4357..4446, 4358..4447, 4508..4633, 4524..4646, 4532..4633, 5213..5377, 5253..5381, 5267..5365, 5458..5505, 5459..5623, 5460..5624		

Seq. No.	53814	Seq. ID	OJ990615_10.0419.C112
Gene No.	113126	Strand	+
Start	3326	End	6337
Name	OJ990615_10.0419.C112.o2.np	Method	AAT/NAP
Start	4358	End	5624
GI	6166140	Score	1003
Exons	4358..4443, 4532..4648, 4726..4810, 4969..5092, 5253..5366, 5464..5624		
GI Descrip.	ELONGATION FACTOR 1-BETA (EF-1-BETA) gi|1084457|pir||S41086 elongation factor 1-beta - Rice gi|432368|dbj|BAA04903| (D23674) elongation factor 1 beta [Oryza sativa]		

Seq. No.	53814	Seq. ID	OJ990615_10.0419.C112
Gene No.	113126	Strand	+
Start	3326	End	6337
Name	OJ990615_10.0419.C112.o2.tw	Method	TBLASTX:Wheat
Start	4368	End	4755
GI	none	Score	58
Exons	4368..4442, 4375..4446, 4376..4456, 4524..4646, 4526..4639, 4532..4648, 4723..4755		

Seq. No.	53814	Seq. ID	OJ990615_10.0419.C112
Gene No.	113126	Strand	+
Start	3326	End	6337
Name	OJ990615_10.0419.C112.o1.tc	Method	TBLASTX:Cress
Start	5213	End	5626
GI	none	Score	182
Exons	5213..5377, 5264..5365, 5459..5623, 5460..5624, 5573..5626		

Seq. No.	53814	Seq. ID	OJ990615_10.0419.C112
Gene No.	113126	Strand	+
Start	3326	End	6337
Name	OJ990615_10.0419.C112.o1.tw	Method	TBLASTX:Wheat
Start	5288	End	5631
GI	none	Score	55
Exons	5288..5362, 5289..5363, 5291..5377, 5323..5373, 5459..5623, 5460..5624, 5463..5624, 5464..5631		

Seq. No.	53815	Seq. ID	OJ990615_10.0419.C115
Gene No.	113127	Strand	+
Start	1852	End	2352
Name	OJ990615_10.0419.C115.o1.gs	Method	GENSCAN
Start	1852	End	2352
GI	none	Score	.77
Exons	1852..2352		

Seq. No.	53815	Seq. ID	OJ990615_10.0419.C115
Gene No.	113127	Strand	+
Start	1852	End	2352
Name	OJ990615_10.0419.C115.o1.np	Method	AAT/NAP
Start	1909	End	2166
GI	2498982	Score	106
Exons	1909..2166		
GI Descrip.	TRANSCRIPTION INITIATION FACTOR TFIID 31 KD SUBUNIT (TAFII-31) (TAFII-32) (TAFII32) (NEURONAL CELL DEATH RELATED GENE IN NEURON -7) (DN-7) gi|1103900 (U40188) induced upon programmed cell death in neuronally differentiated PC12 cells [Rattus norvegicus]		

Seq. No.	53815	Seq. ID	OJ990615_10.0419.C115
Gene No.	113127	Strand	+
Start	1852	End	2352
Name	OJ990615_10.0419.C115.o1.tm	Method	TBLASTX:Maize
Start	1924	End	2158
GI	none	Score	214
Exons	1924..2157, 1924..2127, 2004..2156, 2105..2158		

Seq. No.	53816	Seq. ID	OJ990615_10.0419.C116
Gene No.	113128	Strand	+
Start	229	End	1496
Name	OJ990615_10.0419.C116.o1.gs	Method	GENSCAN
Start	229	End	1496
GI	none	Score	.59
Exons	229..321, 989..1496		

Seq. No.	53817	Seq. ID	OJ990615_10.0419.C120
Gene No.	113129	Strand	-
Start	1	End	617
Name	OJ990615_10.0419.C120.o1.np	Method	AAT/NAP
Start	1	End	617
GI	5295955	Score	144
Exons	1..63, 500..617		
GI Descrip.	(AB026295) Similar to Epstein-Barr virus (EBV) genome.(V01555) [Oryza sativa]		

Seq. No.	53817	Seq. ID	OJ990615_10.0419.C120
Gene No.	113129	Strand	-
Start	1	End	617
Name	OJ990615_10.0419.C120.o1.gs	Method	GENSCAN
Start	297	End	614
GI	none	Score	.62
Exons	297..305, 491..614		

Seq. No.	53818	Seq. ID	OJ990615_10.0419.C121
Gene No.	113130	Strand	+
Start	115	End	931
Name	OJ990615_10.0419.C121.o1.tm	Method	TBLASTX:Maize
Start	114	End	579
GI	none	Score	62
Exons	114..185, 114..191, 115..192, 425..520, 430..579	279..374, 281..349, 425..568,	

Seq. No.	53818	Seq. ID	OJ990615_10.0419.C121
Gene No.	113130	Strand	+
Start	115	End	931
Name	OJ990615_10.0419.C121.o1.gs	Method	GENSCAN
Start	115	End	344
GI	none	Score	.98
Exons	115..174, 282..344		

Seq. No.	53818	Seq. ID	OJ990615_10.0419.C121
Gene No.	113130	Strand	+
Start	115	End	931
Name	OJ990615_10.0419.C121.o1.np	Method	AAT/NAP
Start	115	End	931
GI	6648172	Score	141
Exons	115..174, 282..344, 428..527,	892..931	
GI Descrip.	(AC010926) putative exportin, tRNA (nuclear export receptor for tRNAs) [Arabidopsis thaliana]		

Seq. No.	53819	Seq. ID	OJ990615_10.0419.C122
Gene No.	113131	Strand	+
Start	1	End	1029
Name	OJ990615_10.0419.C122.o1.np	Method	AAT/NAP
Start	1	End	1029
GI	6648172	Score	39
Exons	1..20, 168..380, 999..1029		
GI Descrip.	(AC010926) putative exportin, tRNA (nuclear export receptor for tRNAs) [Arabidopsis thaliana]		

Seq. No.	53819	Seq. ID	OJ990615_10.0419.C122
Gene No.	113131	Strand	+
Start	1	End	1029
Name	OJ990615_10.0419.C122.o1.tm	Method	TBLASTX:Maize
Start	166	End	383
GI	none	Score	185
Exons	166..333, 167..331, 170..340,	171..383	

Seq. No.	53819	Seq. ID	OJ990615_10.0419.C122
Gene No.	113131	Strand	+
Start	1	End	1029
Name	OJ990615_10.0419.C122.o1.gs	Method	GENSCAN

Start	167	End	331
GI	none	Score	.92
Exons	167..331		

Seq. No.	53820	Seq. ID	OJ990615_10.0419.C125
Gene No.	113132	Strand	-
Start	102	End	4660
Name	OJ990615_10.0419.C125.o1.tc	Method	TBLASTX:Cress
Start	78	End	1043
GI	none	Score	52
Exons	78..254, 81..386, 99..203, 147..509, 228..458, 249..332, 252..605, 321..506, 360..707, 424..696, 426..674, 436..606, 444..827, 561..773, 576..866, 636..824, 672..866, 873..1043		

Seq. No.	53820	Seq. ID	OJ990615_10.0419.C125
Gene No.	113132	Strand	-
Start	102	End	4660
Name	OJ990615_10.0419.C125.o1.tm	Method	TBLASTX:Maize
Start	78	End	866
GI	none	Score	75
Exons	78..695, 117..500, 120..650, 261..824, 399..863, 424..693, 456..866		

Seq. No.	53820	Seq. ID	OJ990615_10.0419.C125
Gene No.	113132	Strand	-
Start	102	End	4660
Name	OJ990615_10.0419.C125.o1.ts	Method	TBLASTX:Soybean
Start	78	End	866
GI	none	Score	251
Exons	78..356, 96..578, 189..683, 309..779, 402..866, 609..866		

Seq. No.	53820	Seq. ID	OJ990615_10.0419.C125
Gene No.	113132	Strand	-
Start	102	End	4660
Name	OJ990615_10.0419.C125.o1.gs	Method	GENSCAN
Start	102	End	4660
GI	none	Score	.52
Exons	102..1602, 1845..1937, 1943..2254, 4336..4421, 4577..4660		

Seq. No.	53821	Seq. ID	OJ990615_10.0419.C126
Gene No.	113133	Strand	-
Start	85	End	263
Name	OJ990615_10.0419.C126.o1.gs	Method	GENSCAN
Start	85	End	263
GI	none	Score	.41
Exons	85..263		

Seq. No.	53822	Seq. ID	OJ990615_10.0419.C129
Gene No.	113134	Strand	+
Start	415	End	768
Name	OJ990615_10.0419.C129.o1.np	Method	AAT/NAP
Start	415	End	741
GI	7486444	Score	162
Exons	415..741		
GI Descrip.	hypothetical protein F4I10.110 - Arabidopsis thaliana gi|4455332|emb|CAB36792.1| (AL035525) putative protein [Arabidopsis thaliana] gi|7270266|emb|CAB80035.1| (AL161583)		

putative protein [Arabidopsis thaliana]

Seq. No.	53822	Seq. ID	OJ990615_10.0419.C129
Gene No.	113134	Strand	+
Start	415	End	768
Name	OJ990615_10.0419.C129.o1.tm	Method	TBLASTX:Maize
Start	420	End	726
GI	none	Score	210
Exons	420..587, 424..567, 555..701, 556..726		

Seq. No.	53822	Seq. ID	OJ990615_10.0419.C129
Gene No.	113134	Strand	+
Start	415	End	768
Name	OJ990615_10.0419.C129.o1.gs	Method	GENSCAN
Start	424	End	768
GI	none	Score	.78
Exons	424..768		

Seq. No.	53823	Seq. ID	OJ990615_10.0419.C130
Gene No.	113135	Strand	+
Start	418	End	2791
Name	OJ990615_10.0419.C130.o1.gs	Method	GENSCAN
Start	418	End	2791
GI	none	Score	.8
Exons	418..438, 694..789, 1217..1317, 1774..1882, 2299..2612, 2639..2791		

Seq. No.	53823	Seq. ID	OJ990615_10.0419.C130
Gene No.	113135	Strand	+
Start	418	End	2791
Name	OJ990615_10.0419.C130.o1.tm	Method	TBLASTX:Maize
Start	691	End	1206
GI	none	Score	102
Exons	691..792, 693..791, 883..960, 885..953, 1083..1205, 1104..1205, 1105..1206, 1105..1206		

Seq. No.	53824	Seq. ID	OJ990615_10.0419.C132
Gene No.	113136	Strand	+
Start	120	End	667
Name	OJ990615_10.0419.C132.o1.gs	Method	GENSCAN
Start	120	End	667
GI	none	Score	.43
Exons	120..667		

Seq. No.	53825	Seq. ID	OJ990615_10.0419.C136
Gene No.	113137	Strand	+
Start	6	End	207
Name	OJ990615_10.0419.C136.o1.gs	Method	GENSCAN
Start	6	End	207
GI	none	Score	.88
Exons	6..70, 90..207		

Seq. No.	53826	Seq. ID	OJ990615_10.0419.C138
Gene No.	113138	Strand	-
Start	105	End	981
Name	OJ990615_10.0419.C138.o1.gs	Method	GENSCAN
Start	105	End	903

GI	none	Score	.71
Exons	105..500, 589..903		

Seq. No.	53826	Seq. ID	OJ990615_10.0419.C138
Gene No.	113138	Strand	-
Start	105	End	981
Name	OJ990615_10.0419.C138.o1.tw	Method	TBLASTX:Wheat
Start	586	End	981
GI	none	Score	125
Exons	586..648, 673..981, 674..901, 926..970		

Seq. No.	53827	Seq. ID	OJ990615_10.0419.C139
Gene No.	113139	Strand	+
Start	1408	End	2489
Name	OJ990615_10.0419.C139.o2.np	Method	AAT/NAP
Start	1408	End	2489
GI	7485509	Score	104
Exons	1408..1556, 2463..2489		
GI Descrip.	hypothetical protein F15B8.40 - Arabidopsis thaliana gi|4678270|emb|CAB41178.1| (AL049660) protein kinase-like protein [Arabidopsis thaliana]		

Seq. No.	53827	Seq. ID	OJ990615_10.0419.C139
Gene No.	113140	Strand	-
Start	469	End	1109
Name	OJ990615_10.0419.C139.o1.gs	Method	GENSCAN
Start	469	End	1109
GI	none	Score	.66
Exons	469..860, 956..1109		

Seq. No.	53828	Seq. ID	OJ990615_10.0419.C144
Gene No.	113141	Strand	-
Start	580	End	1185
Name	OJ990615_10.0419.C144.o1.np	Method	AAT/NAP
Start	580	End	1087
GI	7435869	Score	160
Exons	580..696, 782..873, 1009..1087		
GI Descrip.	multicatalytic endopeptidase complex (EC 3.4.99.46) iota chain - soybean gi|3377794|gb|AAC28135.1| (AF034572) proteasome IOTA subunit [Glycine max]		

Seq. No.	53828	Seq. ID	OJ990615_10.0419.C144
Gene No.	113141	Strand	-
Start	580	End	1185
Name	OJ990615_10.0419.C144.o1.gp	Method	AAT/GAP
Start	608	End	1185
GI	22513_1.R1084	Score	604
Exons	608..693, 782..873, 1009..1185		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	53828	Seq. ID	OJ990615_10.0419.C144
Gene No.	113141	Strand	-
Start	580	End	1185
Name	OJ990615_10.0419.C144.o1.gs	Method	GENSCAN
Start	612	End	1126
GI	none	Score	.97

Exons	612..693, 782..873, 1009..1126		
Seq. No.	53829	Seq. ID	OJ990615_10.0419.C145
Gene No.	113142	Strand	+
Start	635	End	810
Name	OJ990615_10.0419.C145.o1.gs	Method	GENSCAN
Start	635	End	810
GI	none	Score	.72
Exons	635..810		
Seq. No.	53830	Seq. ID	OJ990615_10.0419.C146
Gene No.	113143	Strand	+
Start	1314	End	1470
Name	OJ990615_10.0419.C146.o1.gs	Method	GENSCAN
Start	1314	End	1470
GI	none	Score	.64
Exons	1314..1470		
Seq. No.	53831	Seq. ID	OJ990615_10.0419.C147
Gene No.	113144	Strand	+
Start	1	End	227
Name	OJ990615_10.0419.C147.o1.gp	Method	AAT/GAP
Start	1	End	227
GI	19595_1.R1084	Score	432
Exons	1..227		
GI Descrip.	'3608481 2.0e-49 (AF088913) ribosomal protein L27a [Petunia x hybrida]'		
Seq. No.	53831	Seq. ID	OJ990615_10.0419.C147
Gene No.	113145	Strand	+
Start	2533	End	2664
Name	OJ990615_10.0419.C147.o1.np	Method	AAT/NAP
Start	2533	End	2664
GI	5852093	Score	40
Exons	2533..2664		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		
Seq. No.	53831	Seq. ID	OJ990615_10.0419.C147
Gene No.	113146	Strand	-
Start	10	End	4102
Name	OJ990615_10.0419.C147.o1.gs	Method	GENSCAN
Start	10	End	4102
GI	none	Score	.4
Exons	10..101, 2883..3132, 3613..3711, 3948..4102		
Seq. No.	53832	Seq. ID	OJ990615_10.0419.C155
Gene No.	113147	Strand	-
Start	51	End	1425
Name	OJ990615_10.0419.C155.o1.gp	Method	AAT/GAP
Start	51	End	166
GI	3763411	Score	193
Exons	51..166		
Seq. No.	53832	Seq. ID	OJ990615_10.0419.C155
Gene No.	113147	Strand	-
Start	51	End	1425
Name	OJ990615_10.0419.C155.o1.gs	Method	GENSCAN

Start	51	End	1425
GI	none	Score	.74
Exons	51..306, 419..616, 1114..1160, 1355..1425		

Seq. No.	53833	Seq. ID	OJ990615_10.0419.C156
Gene No.	113148	Strand	+
Start	480	End	1036
Name	OJ990615_10.0419.C156.o1.np	Method	AAT/NAP
Start	480	End	1036
GI	7228450	Score	288
Exons	480..565, 698..837, 923..1036		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	53833	Seq. ID	OJ990615_10.0419.C156
Gene No.	113149	Strand	+
Start	1021	End	2001
Name	OJ990615_10.0419.C156.o1.gs	Method	GENSCAN
Start	1021	End	1874
GI	none	Score	.84
Exons	1021..1121, 1153..1171, 1586..1730, 1808..1874		

Seq. No.	53833	Seq. ID	OJ990615_10.0419.C156
Gene No.	113149	Strand	+
Start	1021	End	2001
Name	OJ990615_10.0419.C156.o1.gp	Method	AAT/GAP
Start	1306	End	1555
GI	3761181	Score	434
Exons	1306..1555		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	53833	Seq. ID	OJ990615_10.0419.C156
Gene No.	113149	Strand	+
Start	1021	End	2001
Name	OJ990615_10.0419.C156.o2.np	Method	AAT/NAP
Start	1452	End	2001
GI	7106512	Score	103
Exons	1452..1512, 1586..1636, 1957..2001		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53834	Seq. ID	OJ990615_10.0419.C157
Gene No.	113150	Strand	+
Start	1	End	1585
Name	OJ990615_10.0419.C157.o1.np	Method	AAT/NAP
Start	1	End	1585
GI	5091513	Score	1780
Exons	1..71, 377..1585		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	53834	Seq. ID	OJ990615_10.0419.C157
Gene No.	113150	Strand	+
Start	1	End	1585
Name	OJ990615_10.0419.C157.o1.gs	Method	GENSCAN
Start	52	End	1482
GI	none	Score	.94
Exons	52..221, 314..1482		

Seq. No.	53835	Seq. ID	OJ990615_10.0419.C158
Gene No.	113151	Strand	+
Start	1	End	1033
Name	OJ990615_10.0419.C158.o1.np	Method	AAT/NAP
Start	1	End	1033
GI	6714305	Score	226
Exons	1..39, 468..609, 909..1033		
GI Descrip.	(AC013354) F15H18.4 [Arabidopsis thaliana]		

Seq. No.	53835	Seq. ID	OJ990615_10.0419.C158
Gene No.	113151	Strand	+
Start	1	End	1033
Name	OJ990615_10.0419.C158.o1.tc	Method	TBLASTX:Cress
Start	462	End	615
GI	none	Score	198
Exons	462..608, 463..615, 468..608, 470..610		

Seq. No.	53835	Seq. ID	OJ990615_10.0419.C158
Gene No.	113151	Strand	+
Start	1	End	1033
Name	OJ990615_10.0419.C158.o1.ts	Method	TBLASTX:Soybean
Start	462	End	610
GI	none	Score	205
Exons	462..608, 473..610		

Seq. No.	53835	Seq. ID	OJ990615_10.0419.C158
Gene No.	113151	Strand	+
Start	1	End	1033
Name	OJ990615_10.0419.C158.o1.tw	Method	TBLASTX:Wheat
Start	464	End	605
GI	none	Score	175
Exons	464..547, 465..605		

Seq. No.	53835	Seq. ID	OJ990615_10.0419.C158
Gene No.	113151	Strand	+
Start	1	End	1033
Name	OJ990615_10.0419.C158.o1.gs	Method	GENSCAN
Start	492	End	1030
GI	none	Score	.79
Exons	492..609, 915..1030		

Seq. No.	53836	Seq. ID	OJ990615_10.0419.C160
Gene No.	113152	Strand	-
Start	1	End	1425
Name	OJ990615_10.0419.C160.o1.np	Method	AAT/NAP
Start	1	End	1425
GI	7228457	Score	2202
Exons	1..1191, 1253..1425		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	53836	Seq. ID	OJ990615_10.0419.C160
Gene No.	113152	Strand	-
Start	1	End	1425
Name	OJ990615_10.0419.C160.o1.gs	Method	GENSCAN

Start	54	End	1284
GI	none	Score	.64
Exons	54..1284		

Seq. No.	53836	Seq. ID	OJ990615_10.0419.C160
Gene No.	113152	Strand	-
Start	1	End	1425
Name	OJ990615_10.0419.C160.o1.tw	Method	TBLASTX:Wheat
Start	577	End	1129
GI	none	Score	89
Exons	577..834, 611..850, 817..915,	818..910, 922..969, 1094..1129	

Seq. No.	53836	Seq. ID	OJ990615_10.0419.C160
Gene No.	113152	Strand	-
Start	1	End	1425
Name	OJ990615_10.0419.C160.o1.tm	Method	TBLASTX:Maize
Start	679	End	964
GI	none	Score	94
Exons	679..927, 680..964		

Seq. No.	53837	Seq. ID	OJ990615_10.0419.C161
Gene No.	113153	Strand	-
Start	981	End	1154
Name	OJ990615_10.0419.C161.o1.gs	Method	GENSCAN
Start	981	End	1154
GI	none	Score	.51
Exons	981..1154		

Seq. No.	53838	Seq. ID	OJ990615_10.0419.C162
Gene No.	113154	Strand	-
Start	748	End	903
Name	OJ990615_10.0419.C162.o1.gs	Method	GENSCAN
Start	748	End	903
GI	none	Score	.68
Exons	748..903		

Seq. No.	53838	Seq. ID	OJ990615_10.0419.C162
Gene No.	113155	Strand	-
Start	1262	End	3429
Name	OJ990615_10.0419.C162.o2.gs	Method	GENSCAN
Start	1262	End	3371
GI	none	Score	.48
Exons	1262..1689, 1744..2102, 2125..2531, 3312..3371		

Seq. No.	53838	Seq. ID	OJ990615_10.0419.C162
Gene No.	113155	Strand	-
Start	1262	End	3429
Name	OJ990615_10.0419.C162.o1.np	Method	AAT/NAP
Start	1316	End	3429
GI	7106512	Score	1671
Exons	1316..1689, 1744..2477, 3310..3429		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53839	Seq. ID	OJ990615_10.0419.C164
Gene No.	113156	Strand	+
Start	1	End	837

Name	OJ990615_10.0419.C164.o1.np	Method	AAT/NAP
Start	1	End	837
GI	5091513	Score	773
Exons	1..480, 814..837		
GI Descrip.	(AB023482) Hypothetical protein [Oryza sativa]		

Seq. No.	53839	Seq. ID	OJ990615_10.0419.C164
Gene No.	113156	Strand	+
Start	1	End	837
Name	OJ990615_10.0419.C164.o1.gs	Method	GENSCAN
Start	34	End	611
GI	none	Score	.53
Exons	34..611		

Seq. No.	53840	Seq. ID	OJ990615_10.0419.C170
Gene No.	113157	Strand	-
Start	3698	End	4136
Name	OJ990615_10.0419.C170.o1.gp	Method	AAT/GAP
Start	3539	End	4136
GI	3763412	Score	1153
Exons	3539..4136		

Seq. No.	53840	Seq. ID	OJ990615_10.0419.C170
Gene No.	113157	Strand	-
Start	3698	End	4136
Name	OJ990615_10.0419.C170.o2.gs	Method	GENSCAN
Start	3698	End	4069
GI	none	Score	.83
Exons	3698..4069		

Seq. No.	53841	Seq. ID	OJ990615_10.0419.C171
Gene No.	113158	Strand	-
Start	33	End	2071
Name	OJ990615_10.0419.C171.o1.gs	Method	GENSCAN
Start	33	End	1953
GI	none	Score	.79
Exons	33..150, 1278..1314, 1333..1495, 1683..1953		

Seq. No.	53841	Seq. ID	OJ990615_10.0419.C171
Gene No.	113158	Strand	-
Start	33	End	2071
Name	OJ990615_10.0419.C171.o1.gp	Method	AAT/GAP
Start	1763	End	2071
GI	3763411	Score	373
Exons	1763..2002, 2044..2071		

Seq. No.	53842	Seq. ID	OJ990615_10.0419.C175
Gene No.	113159	Strand	+
Start	743	End	2534
Name	OJ990615_10.0419.C175.o1.gs	Method	GENSCAN
Start	743	End	1661
GI	none	Score	.72
Exons	743..1234, 1281..1661		

Seq. No.	53842	Seq. ID	OJ990615_10.0419.C175
Gene No.	113159	Strand	+
Start	743	End	2534

Name	OJ990615_10.0419.C175.o1.gp	Method	AAT/GAP
Start	748	End	1197
GI	52573_1.R1084	Score	873
Exons	748..1197		
GI Descrip.	'5915838/sp|O81971|C7D9_SOYBN 6.0e-23 CYTOCHROME P450 71D9 (P450 CP3) >gi_3334661_emb_CAA71514_ (Y10490) putative cytochrome P450 [Glycine max]'		

Seq. No.	53842	Seq. ID	OJ990615_10.0419.C175
Gene No.	113159	Strand	+
Start	743	End	2534
Name	OJ990615_10.0419.C175.o1.np	Method	AAT/NAP
Start	770	End	2534
GI	5713172	Score	452
Exons	770..1669, 2475..2534		
GI Descrip.	(AF166332) cytochrome P450 [Nicotiana tabacum]		

Seq. No.	53842	Seq. ID	OJ990615_10.0419.C175
Gene No.	113159	Strand	+
Start	743	End	2534
Name	OJ990615_10.0419.C175.o1.tm	Method	TBLASTX:Maize
Start	842	End	1475
GI	none	Score	86
Exons	842..919, 892..975, 968..1258, 974..1249, 1284..1475, 1287..1460		

Seq. No.	53842	Seq. ID	OJ990615_10.0419.C175
Gene No.	113159	Strand	+
Start	743	End	2534
Name	OJ990615_10.0419.C175.o1.tc	Method	TBLASTX:Cress
Start	854	End	1237
GI	none	Score	65
Exons	854..913, 962..1237		

Seq. No.	53842	Seq. ID	OJ990615_10.0419.C175
Gene No.	113159	Strand	+
Start	743	End	2534
Name	OJ990615_10.0419.C175.o1.ts	Method	TBLASTX:Soybean
Start	860	End	1658
GI	none	Score	117
Exons	860..967, 962..1249, 1281..1547, 1596..1658		

Seq. No.	53843	Seq. ID	OJ990615_10.0419.C177
Gene No.	113160	Strand	+
Start	561	End	2156
Name	OJ990615_10.0419.C177.o1.gs	Method	GENSCAN
Start	561	End	2061
GI	none	Score	.92
Exons	561..602, 672..788, 935..1030, 1106..1734, 1758..2061		

Seq. No.	53843	Seq. ID	OJ990615_10.0419.C177
Gene No.	113160	Strand	+
Start	561	End	2156
Name	OJ990615_10.0419.C177.o1.np	Method	AAT/NAP
Start	1142	End	2156
GI	5915839	Score	370
Exons	1142..2014, 2129..2156		
GI Descrip.	CYTOCHROME P450 71D10 gi|2739000|gb|AAB94588| (AF022459)		

CYP71D10p [Glycine max]

Seq. No.	53843	Seq. ID	OJ990615_10.0419.C177
Gene No.	113160	Strand	+
Start	561	End	2156
Name	OJ990615_10.0419.C177.o1.tm	Method	TBLASTX:Maize
Start	1168	End	1911
GI	none	Score	40
Exons	1168..1242, 1267..1317, 1298..1321, 1321..1377, 1375..1497, 1376..1558, 1376..1504, 1559..1594, 1565..1648, 1735..1911, 1735..1908		

Seq. No.	53844	Seq. ID	OJ990615_10.0419.C178
Gene No.	113161	Strand	+
Start	1	End	676
Name	OJ990615_10.0419.C178.o1.np	Method	AAT/NAP
Start	1	End	640
GI	5915839	Score	587
Exons	1..640		
GI Descrip.	CYTOCHROME P450 71D10 gi|2739000|gb|AAB94588| (AF022459) CYP71D10p [Glycine max]		

Seq. No.	53844	Seq. ID	OJ990615_10.0419.C178
Gene No.	113161	Strand	+
Start	1	End	676
Name	OJ990615_10.0419.C178.o1.gs	Method	GENSCAN
Start	83	End	676
GI	none	Score	.74
Exons	83..676		

Seq. No.	53844	Seq. ID	OJ990615_10.0419.C178
Gene No.	113162	Strand	-
Start	169	End	347
Name	OJ990615_10.0419.C178.o1.gp	Method	AAT/GAP
Start	169	End	347
GI	2798030	Score	293
Exons	169..347		

Seq. No.	53844	Seq. ID	OJ990615_10.0419.C178
Gene No.	113163	Strand	-
Start	908	End	1913
Name	OJ990615_10.0419.C178.o1.tc	Method	TBLASTX:Cress
Start	31	End	634
GI	none	Score	122
Exons	31..123, 32..148, 154..468, 155..634		

Seq. No.	53844	Seq. ID	OJ990615_10.0419.C178
Gene No.	113163	Strand	-
Start	908	End	1913
Name	OJ990615_10.0419.C178.o1.tm	Method	TBLASTX:Maize
Start	31	End	486
GI	none	Score	512
Exons	31..486, 32..478		

Seq. No.	53844	Seq. ID	OJ990615_10.0419.C178
Gene No.	113163	Strand	-
Start	908	End	1913

Name	OJ990615_10.0419.C178.o1.ts	Method	TBLASTX:Soybean
Start	31	End	625
GI	none	Score	567
Exons	31..477, 32..625, 512..625		

Seq. No.	53844	Seq. ID	OJ990615_10.0419.C178
Gene No.	113163	Strand	-
Start	908	End	1913
Name	OJ990615_10.0419.C178.o1.tw	Method	TBLASTX:Wheat
Start	31	End	340
GI	none	Score	410
Exons	31..339, 32..340		

Seq. No.	53844	Seq. ID	OJ990615_10.0419.C178
Gene No.	113163	Strand	-
Start	908	End	1913
Name	OJ990615_10.0419.C178.o2.tw	Method	TBLASTX:Wheat
Start	365	End	637
GI	none	Score	293
Exons	365..637, 368..637		

Seq. No.	53844	Seq. ID	OJ990615_10.0419.C178
Gene No.	113163	Strand	-
Start	908	End	1913
Name	OJ990615_10.0419.C178.o2.gs	Method	GENSCAN
Start	908	End	1879
GI	none	Score	.87
Exons	908..961, 1707..1879		

Seq. No.	53844	Seq. ID	OJ990615_10.0419.C178
Gene No.	113163	Strand	-
Start	908	End	1913
Name	OJ990615_10.0419.C178.o2.gp	Method	AAT/GAP
Start	1251	End	1626
GI	none	Score	708
Exons	1251..1626		

Seq. No.	53844	Seq. ID	OJ990615_10.0419.C178
Gene No.	113163	Strand	-
Start	908	End	1913
Name	OJ990615_10.0419.C178.o2.tc	Method	TBLASTX:Cress
Start	1499	End	1873
GI	none	Score	68
Exons	1499..1612, 1519..1611, 1530..1625, 1704..1799, 1802..1873		

Seq. No.	53844	Seq. ID	OJ990615_10.0419.C178
Gene No.	113163	Strand	-
Start	908	End	1913
Name	OJ990615_10.0419.C178.o2.ts	Method	TBLASTX:Soybean
Start	1510	End	1880
GI	none	Score	77
Exons	1510..1611, 1529..1612, 1530..1625, 1704..1799, 1705..1755, 1803..1880		

Seq. No.	53844	Seq. ID	OJ990615_10.0419.C178
Gene No.	113163	Strand	-
Start	908	End	1913

Name	OJ990615_10.0419.C178.o2.tm	Method	TBLASTX:Maize
Start	1517	End	1889
GI	none	Score	100
Exons	1517..1600, 1528..1617, 1529..1612, 1530..1625, 1704..1799, 1704..1799, 1709..1819, 1715..1816, 1786..1878, 1802..1882, 1806..1889		

Seq. No.	53844	Seq. ID	OJ990615_10.0419.C178
Gene No.	113163	Strand	-
Start	908	End	1913
Name	OJ990615_10.0419.C178.o3.gp	Method	AAT/GAP
Start	1692	End	1913
GI	none	Score	263
Exons	1692..1913		

Seq. No.	53845	Seq. ID	OJ990615_10.0419.C187
Gene No.	113164	Strand	+
Start	219	End	607
Name	OJ990615_10.0419.C187.o1.gs	Method	GENSCAN
Start	219	End	607
GI	none	Score	.82
Exons	219..298, 364..607		

Seq. No.	53846	Seq. ID	OJ990615_10.0419.C192
Gene No.	113165	Strand	+
Start	455	End	784
Name	OJ990615_10.0419.C192.o1.gs	Method	GENSCAN
Start	455	End	771
GI	none	Score	.71
Exons	455..771		

Seq. No.	53846	Seq. ID	OJ990615_10.0419.C192
Gene No.	113165	Strand	+
Start	455	End	784
Name	OJ990615_10.0419.C192.o1.np	Method	AAT/NAP
Start	482	End	784
GI	5915835	Score	244
Exons	482..784		
GI Descrip.	CYTOCHROME P450 71D6 gi|1762142 (U48434) putative cytochrome P450 [Solanum chacoense]		

Seq. No.	53846	Seq. ID	OJ990615_10.0419.C192
Gene No.	113165	Strand	+
Start	455	End	784
Name	OJ990615_10.0419.C192.o1.tm	Method	TBLASTX:Maize
Start	586	End	784
GI	none	Score	258
Exons	586..780, 587..784		

Seq. No.	53846	Seq. ID	OJ990615_10.0419.C192
Gene No.	113165	Strand	+
Start	455	End	784
Name	OJ990615_10.0419.C192.o1.ts	Method	TBLASTX:Soybean
Start	587	End	783
GI	none	Score	59
Exons	587..628, 622..783, 623..781		

Seq. No.	53847	Seq. ID	OJ990615_10.0419.C193
Gene No.	113166	Strand	+
Start	1	End	1157
Name	OJ990615_10.0419.C193.o1.np	Method	AAT/NAP
Start	1	End	1142
GI	5915835	Score	675
Exons	1..440, 534..1142		
GI Descrip.	CYTOCHROME P450 71D6 gi|1762142 (U48434) putative cytochrome P450 [Solanum chacoense]		

Seq. No.	53847	Seq. ID	OJ990615_10.0419.C193
Gene No.	113166	Strand	+
Start	1	End	1157
Name	OJ990615_10.0419.C193.o1.gs	Method	GENSCAN
Start	66	End	1157
GI	none	Score	.91
Exons	66..440, 534..1157		

Seq. No.	53847	Seq. ID	OJ990615_10.0419.C193
Gene No.	113167	Strand	-
Start	1088	End	1304
Name	OJ990615_10.0419.C193.o1.ts	Method	TBLASTX:Soybean
Start	51	End	1129
GI	none	Score	108
Exons	51..314, 360..437, 534..722, 536..748, 755..1129, 762..1127		

Seq. No.	53847	Seq. ID	OJ990615_10.0419.C193
Gene No.	113167	Strand	-
Start	1088	End	1304
Name	OJ990615_10.0419.C193.o1.tm	Method	TBLASTX:Maize
Start	233	End	997
GI	none	Score	88
Exons	233..292, 234..314, 360..440, 396..434, 533..997, 534..722, 536..991, 762..995		

Seq. No.	53847	Seq. ID	OJ990615_10.0419.C193
Gene No.	113167	Strand	-
Start	1088	End	1304
Name	OJ990615_10.0419.C193.o2.tw	Method	TBLASTX:Wheat
Start	360	End	842
GI	none	Score	50
Exons	360..440, 533..841, 534..842		

Seq. No.	53847	Seq. ID	OJ990615_10.0419.C193
Gene No.	113167	Strand	-
Start	1088	End	1304
Name	OJ990615_10.0419.C193.o1.tc	Method	TBLASTX:Cress
Start	534	End	1130
GI	none	Score	150
Exons	534..722, 545..637, 707..1090, 780..1130		

Seq. No.	53847	Seq. ID	OJ990615_10.0419.C193
Gene No.	113167	Strand	-
Start	1088	End	1304
Name	OJ990615_10.0419.C193.o1.tw	Method	TBLASTX:Wheat
Start	864	End	1150
GI	none	Score	340

Exons	864..1145, 867..1139, 908..1150		
Seq. No.	53847	Seq. ID	OJ990615_10.0419.C193
Gene No.	113167	Strand	-
Start	1088	End	1304
Name	OJ990615_10.0419.C193.o1.gp	Method	AAT/GAP
Start	1088	End	1304
GI	569091	Score	411
Exons	1088..1304		
Seq. No.	53848	Seq. ID	OJ990615_10.0419.C196
Gene No.	113168	Strand	-
Start	1	End	1205
Name	OJ990615_10.0419.C196.o1.np	Method	AAT/NAP
Start	1	End	1205
GI	5713172	Score	395
Exons	1..402, 1024..1205		
GI Descrip.	(AF166332) cytochrome P450 [Nicotiana tabacum]		
Seq. No.	53848	Seq. ID	OJ990615_10.0419.C196
Gene No.	113168	Strand	-
Start	1	End	1205
Name	OJ990615_10.0419.C196.o1.tc	Method	TBLASTX:Cress
Start	2	End	402
GI	none	Score	83
Exons	2..136, 3..137, 173..391, 190..402, 256..402		
Seq. No.	53848	Seq. ID	OJ990615_10.0419.C196
Gene No.	113168	Strand	-
Start	1	End	1205
Name	OJ990615_10.0419.C196.o1.ts	Method	TBLASTX:Soybean
Start	2	End	1095
GI	none	Score	118
Exons	2..136, 3..137, 200..391, 256..402, 1027..1095		
Seq. No.	53848	Seq. ID	OJ990615_10.0419.C196
Gene No.	113168	Strand	-
Start	1	End	1205
Name	OJ990615_10.0419.C196.o1.tm	Method	TBLASTX:Maize
Start	2	End	1116
GI	none	Score	104
Exons	2..136, 3..134, 126..179, 173..403, 262..402, 1024..1095, 1027..1116		
Seq. No.	53848	Seq. ID	OJ990615_10.0419.C196
Gene No.	113168	Strand	-
Start	1	End	1205
Name	OJ990615_10.0419.C196.o1.tw	Method	TBLASTX:Wheat
Start	92	End	1116
GI	none	Score	44
Exons	92..136, 126..173, 127..174, 173..403, 189..380, 262..402, 1024..1095, 1030..1116, 1031..1096		
Seq. No.	53848	Seq. ID	OJ990615_10.0419.C196
Gene No.	113168	Strand	-
Start	1	End	1205
Name	OJ990615_10.0419.C196.o1.gs	Method	GENSCAN

Start	1024	End	1169
GI	none	Score	.91
Exons	1024..1169		

Seq. No.	53849	Seq. ID	OJ990615_10.0419.C197
Gene No.	113169	Strand	-
Start	1	End	909
Name	OJ990615_10.0419.C197.o1.np	Method	AAT/NAP
Start	1	End	864
GI	5915840	Score	426
Exons	1..864		
GI Descrip.	CYTOCHROME P450 71D11 gi|2367431 (AF000403) putative cytochrome P450 [Lotus japonicus]		

Seq. No.	53849	Seq. ID	OJ990615_10.0419.C197
Gene No.	113169	Strand	-
Start	1	End	909
Name	OJ990615_10.0419.C197.o1.ts	Method	TBLASTX:Soybean
Start	2	End	804
GI	none	Score	69
Exons	2..43, 118..390, 418..690, 700..804, 758..802		

Seq. No.	53849	Seq. ID	OJ990615_10.0419.C197
Gene No.	113169	Strand	-
Start	1	End	909
Name	OJ990615_10.0419.C197.o1.gs	Method	GENSCAN
Start	26	End	909
GI	none	Score	.4
Exons	26..909		

Seq. No.	53849	Seq. ID	OJ990615_10.0419.C197
Gene No.	113169	Strand	-
Start	1	End	909
Name	OJ990615_10.0419.C197.o1.tm	Method	TBLASTX:Maize
Start	158	End	807
GI	none	Score	89
Exons	158..313, 190..381, 199..378, 418..690, 433..579, 452..691, 748..807, 755..802		

Seq. No.	53849	Seq. ID	OJ990615_10.0419.C197
Gene No.	113169	Strand	-
Start	1	End	909
Name	OJ990615_10.0419.C197.o1.tc	Method	TBLASTX:Cress
Start	427	End	804
GI	none	Score	78
Exons	427..690, 584..691, 751..804		

Seq. No.	53850	Seq. ID	OJ990615_10.0419.C198
Gene No.	113170	Strand	+
Start	1	End	981
Name	OJ990615_10.0419.C198.o1.np	Method	AAT/NAP
Start	1	End	742
GI	5915836	Score	609
Exons	1..742		
GI Descrip.	CYTOCHROME P450 71D7 gi|1762144 (U48435) putative cytochrome P450 [Solanum chacoense]		

Seq. No.	53850	Seq. ID	OJ990615_10.0419.C198
Gene No.	113170	Strand	+
Start	1	End	981
Name	OJ990615_10.0419.C198.o2.tw	Method	TBLASTX:Wheat
Start	131	End	442
GI	none	Score	47
Exons	131..235, 135..167, 173..442,	178..441	

Seq. No.	53850	Seq. ID	OJ990615_10.0419.C198
Gene No.	113170	Strand	+
Start	1	End	981
Name	OJ990615_10.0419.C198.o1.ts	Method	TBLASTX:Soybean
Start	169	End	733
GI	none	Score	160
Exons	169..336, 170..322, 170..337,	355..612,	362..733

Seq. No.	53850	Seq. ID	OJ990615_10.0419.C198
Gene No.	113170	Strand	+
Start	1	End	981
Name	OJ990615_10.0419.C198.o1.tm	Method	TBLASTX:Maize
Start	170	End	724
GI	none	Score	67
Exons	170..262, 176..229, 178..255,	266..319,	269..568, 277..714,
	362..721, 614..724		

Seq. No.	53850	Seq. ID	OJ990615_10.0419.C198
Gene No.	113170	Strand	+
Start	1	End	981
Name	OJ990615_10.0419.C198.o1.tc	Method	TBLASTX:Cress
Start	173	End	733
GI	none	Score	151
Exons	173..322, 178..573, 362..733,	380..643	

Seq. No.	53850	Seq. ID	OJ990615_10.0419.C198
Gene No.	113170	Strand	+
Start	1	End	981
Name	OJ990615_10.0419.C198.o1.gs	Method	GENSCAN
Start	185	End	760
GI	none	Score	.52
Exons	185..760		

Seq. No.	53850	Seq. ID	OJ990615_10.0419.C198
Gene No.	113170	Strand	+
Start	1	End	981
Name	OJ990615_10.0419.C198.o1.gp	Method	AAT/GAP
Start	376	End	981
GI	17099_2.R1084	Score	1118
Exons	376..981		
GI Descrip.	'5915839/sp|O48923|C7DA_SOYBN 3.0e-39 CYTOCHROME P450 71D10 >gi_2739000_gb_AAB94588_ (AF022459) CYP71D10p [Glycine max]'		

Seq. No.	53850	Seq. ID	OJ990615_10.0419.C198
Gene No.	113170	Strand	+
Start	1	End	981
Name	OJ990615_10.0419.C198.o1.tw	Method	TBLASTX:Wheat
Start	457	End	752
GI	none	Score	363

Exons	457..735, 470..739, 470..745, 525..752		
Seq. No.	53851	Seq. ID	OJ990615_10.0419.C205
Gene No.	113171	Strand	+
Start	938	End	1178
Name	OJ990615_10.0419.C205.o1.gs	Method	GENSCAN
Start	938	End	1178
GI	none	Score	.86
Exons	938..1052, 1072..1178		
Seq. No.	53852	Seq. ID	OJ990615_10.0419.C212
Gene No.	113172	Strand	+
Start	190	End	1350
Name	OJ990615_10.0419.C212.o1.gs	Method	GENSCAN
Start	190	End	1350
GI	none	Score	.92
Exons	190..201, 1246..1350		
Seq. No.	53853	Seq. ID	OJ990615_10.0419.C214
Gene No.	113173	Strand	+
Start	1	End	1990
Name	OJ990615_10.0419.C214.o1.np	Method	AAT/NAP
Start	1	End	1990
GI	5042463	Score	154
Exons	1..187, 844..984, 1036..1144, 1822..1990		
GI Descrip.	(AC007789) unknown protein [Oryza sativa]		
Seq. No.	53853	Seq. ID	OJ990615_10.0419.C214
Gene No.	113173	Strand	+
Start	1	End	1990
Name	OJ990615_10.0419.C214.o1.gs	Method	GENSCAN
Start	907	End	1908
GI	none	Score	.52
Exons	907..1003, 1719..1908		
Seq. No.	53854	Seq. ID	OJ990615_10.0419.C217
Gene No.	113174	Strand	+
Start	1779	End	1986
Name	OJ990615_10.0419.C217.o1.gs	Method	GENSCAN
Start	1779	End	1986
GI	none	Score	.77
Exons	1779..1986		
Seq. No.	53854	Seq. ID	OJ990615_10.0419.C217
Gene No.	113175	Strand	-
Start	2065	End	2188
Name	OJ990615_10.0419.C217.o1.gp	Method	AAT/GAP
Start	2065	End	2188
GI	17099_1.R1084	Score	205
Exons	2065..2188		
GI Descrip.	'5915836/sp|P93531|C7D7_SOLCH 3.0e-46 CYTOCHROME P450 71D7 >gi_1762144 (U48435) putative cytochrome P450 [Solanum chacoense]'		
Seq. No.	53855	Seq. ID	OJ990615_10.0419.C222
Gene No.	113176	Strand	+
Start	102	End	232

Name	OJ990615_10.0419.C222.o1.gs	Method	GENSCAN
Start	102	End	232
GI	none	Score	.78
Exons	102..232		

Seq. No.	53855	Seq. ID	OJ990615_10.0419.C222
Gene No.	113177	Strand	-
Start	1	End	802
Name	OJ990615_10.0419.C222.o1.np	Method	AAT/NAP
Start	1	End	802
GI	7485672	Score	108
Exons	1..34, 121..186, 649..802		
GI Descrip.	hypothetical protein F17N18.30 - Arabidopsis thaliana gi|4753648|emb|CAB41924.1| (AL049751) putative protein [Arabidopsis thaliana] gi|7268016|emb|CAB78356.1| (AL161535) putative protein [Arabidopsis thaliana]		

Seq. No.	53856	Seq. ID	OJ990615_10.0419.C224
Gene No.	113178	Strand	-
Start	768	End	1646
Name	OJ990615_10.0419.C224.o1.gs	Method	GENSCAN
Start	768	End	1646
GI	none	Score	.72
Exons	768..868, 1559..1646		

Seq. No.	53857	Seq. ID	OJ990615_10.0419.C225
Gene No.	113179	Strand	-
Start	1132	End	2055
Name	OJ990615_10.0419.C225.o1.gs	Method	GENSCAN
Start	1132	End	2050
GI	none	Score	.68
Exons	1132..1233, 1526..1683, 1818..2050		

Seq. No.	53857	Seq. ID	OJ990615_10.0419.C225
Gene No.	113179	Strand	-
Start	1132	End	2055
Name	OJ990615_10.0419.C225.o1.tc	Method	TBLASTX:Cress
Start	1132	End	1983
GI	none	Score	111
Exons	1132..1239, 1136..1237, 1583..1684, 1616..1675, 1617..1685, 1819..1980, 1819..1983		

Seq. No.	53857	Seq. ID	OJ990615_10.0419.C225
Gene No.	113179	Strand	-
Start	1132	End	2055
Name	OJ990615_10.0419.C225.o1.np	Method	AAT/NAP
Start	1135	End	2055
GI	7485846	Score	638
Exons	1135..1233, 1526..1683, 1818..2055		
GI Descrip.	hypothetical protein F20D10.160 - Arabidopsis thaliana gi|4467110|emb|CAB37544.1| (AL035538) putative protein [Arabidopsis thaliana] gi|7270787|emb|CAB80469.1| (AL161592) putative protein [Arabidopsis thaliana]		

Seq. No.	53857	Seq. ID	OJ990615_10.0419.C225
Gene No.	113179	Strand	-
Start	1132	End	2055

Name	OJ990615_10.0419.C225.o1.ts	Method	TBLASTX:Soybean
Start	1541	End	2044
GI	none	Score	116
Exons	1541..1684, 1550..1678, 1551..1685, 1815..2042, 1819..2043, 1819..2043, 1820..2044		

Seq. No.	53858	Seq. ID	OJ990615_10.0419.C229
Gene No.	113180	Strand	+
Start	1	End	1848
Name	OJ990615_10.0419.C229.o1.np	Method	AAT/NAP
Start	1	End	1848
GI	5915839	Score	723
Exons	1..416, 509..874, 1241..1848		
GI Descrip.	CYTOCHROME P450 71D10 gi|2739000|gb|AAB94588| (AF022459) CYP71D10p [Glycine max]		

Seq. No.	53858	Seq. ID	OJ990615_10.0419.C229
Gene No.	113180	Strand	+
Start	1	End	1848
Name	OJ990615_10.0419.C229.o2.tm	Method	TBLASTX:Maize
Start	4	End	324
GI	none	Score	110
Exons	4..84, 5..70, 131..244, 133..240, 277..324, 278..316		

Seq. No.	53858	Seq. ID	OJ990615_10.0419.C229
Gene No.	113180	Strand	+
Start	1	End	1848
Name	OJ990615_10.0419.C229.o1.ts	Method	TBLASTX:Soybean
Start	11	End	1833
GI	none	Score	59
Exons	11..67, 131..229, 278..313, 1250..1384, 1255..1542, 1262..1540, 1539..1832, 1540..1833		

Seq. No.	53858	Seq. ID	OJ990615_10.0419.C229
Gene No.	113180	Strand	+
Start	1	End	1848
Name	OJ990615_10.0419.C229.o1.gs	Method	GENSCAN
Start	53	End	1330
GI	none	Score	.69
Exons	53..379, 1241..1330		

Seq. No.	53858	Seq. ID	OJ990615_10.0419.C229
Gene No.	113180	Strand	+
Start	1	End	1848
Name	OJ990615_10.0419.C229.o1.tw	Method	TBLASTX:Wheat
Start	1242	End	1542
GI	none	Score	138
Exons	1242..1535, 1255..1542, 1257..1496, 1262..1540		

Seq. No.	53858	Seq. ID	OJ990615_10.0419.C229
Gene No.	113180	Strand	+
Start	1	End	1848
Name	OJ990615_10.0419.C229.o1.tc	Method	TBLASTX:Cress
Start	1255	End	1839
GI	none	Score	258
Exons	1255..1542, 1262..1540, 1539..1676, 1540..1839, 1540..1782		

Seq. No.	53858	Seq. ID	OJ990615_10.0419.C229
Gene No.	113180	Strand	+
Start	1	End	1848
Name	OJ990615_10.0419.C229.o1.tm	Method	TBLASTX:Maize
Start	1258	End	1703
GI	none	Score	348
Exons	1258..1542, 1262..1540, 1433..1552, 1539..1670, 1539..1703, 1540..1701		

Seq. No.	53858	Seq. ID	OJ990615_10.0419.C229
Gene No.	113180	Strand	+
Start	1	End	1848
Name	OJ990615_10.0419.C229.o2.tw	Method	TBLASTX:Wheat
Start	1563	End	1845
GI	none	Score	316
Exons	1563..1841, 1576..1845, 1720..1845		

Seq. No.	53859	Seq. ID	OJ990615_10.0419.C238
Gene No.	113181	Strand	+
Start	562	End	1514
Name	OJ990615_10.0419.C238.o1.gs	Method	GENSCAN
Start	562	End	1484
GI	none	Score	.74
Exons	562..1484		

Seq. No.	53859	Seq. ID	OJ990615_10.0419.C238
Gene No.	113181	Strand	+
Start	562	End	1514
Name	OJ990615_10.0419.C238.o1.np	Method	AAT/NAP
Start	577	End	1514
GI	5915836	Score	393
Exons	577..1514		
GI Descrip.	CYTOCHROME P450 71D7 gi|1762144 (U48435) putative cytochrome P450 [Solanum chacoense]		

Seq. No.	53859	Seq. ID	OJ990615_10.0419.C238
Gene No.	113181	Strand	+
Start	562	End	1514
Name	OJ990615_10.0419.C238.o1.tm	Method	TBLASTX:Maize
Start	657	End	1071
GI	none	Score	71
Exons	657..761, 658..720, 747..1007, 778..1071		

Seq. No.	53859	Seq. ID	OJ990615_10.0419.C238
Gene No.	113181	Strand	+
Start	562	End	1514
Name	OJ990615_10.0419.C238.o1.tc	Method	TBLASTX:Cress
Start	664	End	1065
GI	none	Score	71
Exons	664..729, 778..1065		

Seq. No.	53859	Seq. ID	OJ990615_10.0419.C238
Gene No.	113181	Strand	+
Start	562	End	1514
Name	OJ990615_10.0419.C238.o1.ts	Method	TBLASTX:Soybean
Start	664	End	1133
GI	none	Score	85

Exons	664..774, 666..752, 781..1128, 798..884, 924..1133		
Seq. No.	53860	Seq. ID	OJ990615_10.0419.C241
Gene No.	113182	Strand	-
Start	1	End	1141
Name	OJ990615_10.0419.C241.o1.np	Method	AAT/NAP
Start	1	End	1141
GI	220578	Score	126
Exons	1..62, 110..196, 715..1141		
GI Descrip.	(D00570) open reading frame (251 AA) [Mus musculus]		
Seq. No.	53861	Seq. ID	OJ990615_10.0419.C242
Gene No.	113183	Strand	-
Start	756	End	863
Name	OJ990615_10.0419.C242.o1.gs	Method	GENSCAN
Start	756	End	863
GI	none	Score	.75
Exons	756..863		
Seq. No.	53862	Seq. ID	OJ990615_10.0419.C243
Gene No.	113184	Strand	+
Start	176	End	702
Name	OJ990615_10.0419.C243.o1.gs	Method	GENSCAN
Start	176	End	702
GI	none	Score	.53
Exons	176..263, 623..702		
Seq. No.	53863	Seq. ID	OJ990615_10.0419.C244
Gene No.	113185	Strand	+
Start	721	End	1027
Name	OJ990615_10.0419.C244.o1.np	Method	AAT/NAP
Start	721	End	1027
GI	6739506	Score	126
Exons	721..1027		
GI Descrip.	(AF122821) cytochrome P450 [Capsicum annuum]		
Seq. No.	53863	Seq. ID	OJ990615_10.0419.C244
Gene No.	113186	Strand	-
Start	351	End	980
Name	OJ990615_10.0419.C244.o1.gs	Method	GENSCAN
Start	351	End	980
GI	none	Score	.6
Exons	351..545, 624..870, 912..980		
Seq. No.	53864	Seq. ID	OJ990615_10.0419.C248
Gene No.	113187	Strand	+
Start	230	End	329
Name	OJ990615_10.0419.C248.o1.gs	Method	GENSCAN
Start	230	End	329
GI	none	Score	.79
Exons	230..329		
Seq. No.	53865	Seq. ID	OJ990615_10.0419.C249
Gene No.	113188	Strand	+
Start	391	End	1101
Name	OJ990615_10.0419.C249.o1.gs	Method	GENSCAN
Start	391	End	475

GI	none	Score	.45
Exons	391..475		
Seq. No.	53865	Seq. ID	OJ990615_10.0419.C249
Gene No.	113188	Strand	+
Start	391	End	1101
Name	OJ990615_10.0419.C249.o1.np	Method	AAT/NAP
Start	391	End	1101
GI	6721547	Score	86
Exons	391..475, 1032..1101		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		
Seq. No.	53866	Seq. ID	OJ990615_10.0419.C250
Gene No.	113189	Strand	-
Start	1087	End	1162
Name	OJ990615_10.0419.C250.o1.gs	Method	GENSCAN
Start	1087	End	1162
GI	none	Score	.66
Exons	1087..1162		
Seq. No.	53867	Seq. ID	OJ990615_10.0419.C251
Gene No.	113190	Strand	+
Start	216	End	831
Name	OJ990615_10.0419.C251.o1.tm	Method	TBLASTX:Maize
Start	193	End	804
GI	none	Score	100
Exons	193..345, 216..338, 349..402, 445..804	360..773, 393..527, 395..619,	
Seq. No.	53867	Seq. ID	OJ990615_10.0419.C251
Gene No.	113190	Strand	+
Start	216	End	831
Name	OJ990615_10.0419.C251.o1.tc	Method	TBLASTX:Cress
Start	208	End	810
GI	none	Score	171
Exons	208..405, 228..326, 354..653,	370..759, 445..810	
Seq. No.	53867	Seq. ID	OJ990615_10.0419.C251
Gene No.	113190	Strand	+
Start	216	End	831
Name	OJ990615_10.0419.C251.o1.ts	Method	TBLASTX:Soybean
Start	208	End	816
GI	none	Score	190
Exons	208..405, 228..419, 438..776,	445..816, 463..807	
Seq. No.	53867	Seq. ID	OJ990615_10.0419.C251
Gene No.	113190	Strand	+
Start	216	End	831
Name	OJ990615_10.0419.C251.o1.np	Method	AAT/NAP
Start	216	End	828
GI	5915837	Score	603
Exons	216..828		
GI Descrip.	CYTOCHROME P450 71D8 (P450 CP7) gi|3334667|emb|CAA71517| (Y10493) putative cytochrome P450 [Glycine max]		
Seq. No.	53867	Seq. ID	OJ990615_10.0419.C251
Gene No.	113190	Strand	+

Start	216	End	831
Name	OJ990615_10.0419.C251.o2.tw	Method	TBLASTX:Wheat
Start	216	End	522
GI	none	Score	315
Exons	216..521, 217..522		

Seq. No.	53867	Seq. ID	OJ990615_10.0419.C251
Gene No.	113190	Strand	+
Start	216	End	831
Name	OJ990615_10.0419.C251.o1.gp	Method	AAT/GAP
Start	217	End	650
GI	12793_1.R1084	Score	840
Exons	217..650		
GI Descrip.	'5915837/sp|O81974|C7D8_SOYBN 1.0e-49 CYTOCHROME P450 71D8 (P450 CP7) >gi_3334667_emb_CAA71517_ (Y10493) putative cytochrome P450 [Glycine max]'		

Seq. No.	53867	Seq. ID	OJ990615_10.0419.C251
Gene No.	113190	Strand	+
Start	216	End	831
Name	OJ990615_10.0419.C251.o1.gs	Method	GENSCAN
Start	268	End	813
GI	none	Score	.65
Exons	268..813		

Seq. No.	53867	Seq. ID	OJ990615_10.0419.C251
Gene No.	113190	Strand	+
Start	216	End	831
Name	OJ990615_10.0419.C251.o1.tw	Method	TBLASTX:Wheat
Start	552	End	831
GI	none	Score	378
Exons	552..779, 553..831, 553..822		

Seq. No.	53868	Seq. ID	OJ990615_10.0419.C252
Gene No.	113191	Strand	-
Start	308	End	1331
Name	OJ990615_10.0419.C252.o1.gp	Method	AAT/GAP
Start	308	End	1331
GI	23689_1.R1084	Score	822
Exons	308..710, 1310..1331		
GI Descrip.	'2911044/emb|CAA17554| 2.0e-30 (AL021961) putative protein [Arabidopsis thaliana]'		

Seq. No.	53868	Seq. ID	OJ990615_10.0419.C252
Gene No.	113191	Strand	-
Start	308	End	1331
Name	OJ990615_10.0419.C252.o1.gs	Method	GENSCAN
Start	505	End	1086
GI	none	Score	.93
Exons	505..710, 1077..1086		

Seq. No.	53868	Seq. ID	OJ990615_10.0419.C252
Gene No.	113191	Strand	-
Start	308	End	1331
Name	OJ990615_10.0419.C252.o1.ts	Method	TBLASTX:Soybean
Start	588	End	713
GI	none	Score	130

Exons	588..713, 589..708, 591..710		
Seq. No.	53869	Seq. ID	OJ990615_10.0419.C253
Gene No.	113192	Strand	+
Start	243	End	454
Name	OJ990615_10.0419.C253.o1.gs	Method	GENSCAN
Start	243	End	454
GI	none	Score	.85
Exons	243..454		
Seq. No.	53870	Seq. ID	OJ990615_10.0419.C255
Gene No.	113193	Strand	-
Start	1789	End	2845
Name	OJ990615_10.0419.C255.o1.gp	Method	AAT/GAP
Start	1529	End	2211
GI	62580_1.R1084	Score	1214
Exons	1529..2211		
GI Descrip.	'5091508/dbj|BAA78743.1| 1.0e-16 (AB023482) ESTs C22458(C62866),C22459(C62866) correspond to a region of the predicted gene.; Similar to genomic sequence of Arabidopsis thaliana BAC F8A5, complete sequence.(AC002292) [Oryza sativa]'		
Seq. No.	53870	Seq. ID	OJ990615_10.0419.C255
Gene No.	113193	Strand	-
Start	1789	End	2845
Name	OJ990615_10.0419.C255.o1.tm	Method	TBLASTX:Maize
Start	1789	End	2840
GI	none	Score	48
Exons	1789..1836, 1793..1837, 1795..1836, 1926..2063, 1929..2159, 1930..2178, 1930..2178, 2171..2413, 2173..2463, 2261..2449, 2573..2839, 2574..2840, 2598..2840		
Seq. No.	53870	Seq. ID	OJ990615_10.0419.C255
Gene No.	113193	Strand	-
Start	1789	End	2845
Name	OJ990615_10.0419.C255.o2.gs	Method	GENSCAN
Start	1789	End	2845
GI	none	Score	.6
Exons	1789..2464, 2574..2845		
Seq. No.	53870	Seq. ID	OJ990615_10.0419.C255
Gene No.	113193	Strand	-
Start	1789	End	2845
Name	OJ990615_10.0419.C255.o1.np	Method	AAT/NAP
Start	1867	End	2836
GI	5903051	Score	784
Exons	1867..2464, 2574..2836		
GI Descrip.	(AC008016) Contains PF|00069 Eukaryotic protein kinase domain. ESTs gb|W43822, gb|T20475 and gb|AA586152 come from this gene. [Arabidopsis thaliana]		
Seq. No.	53870	Seq. ID	OJ990615_10.0419.C255
Gene No.	113193	Strand	-
Start	1789	End	2845
Name	OJ990615_10.0419.C255.o1.ts	Method	TBLASTX:Soybean
Start	1957	End	2836
GI	none	Score	110

Exons	1957..2130, 2140..2463, 2270..2446, 2573..2626, 2645..2836		
Seq. No.	53870	Seq. ID	OJ990615_10.0419.C255
Gene No.	113193	Strand	-
Start	1789	End	2845
Name	OJ990615_10.0419.C255.o1.tc	Method	TBLASTX:Cress
Start	1981	End	2836
GI	none	Score	90
Exons	1981..2463, 2270..2425, 2573..2836		
Seq. No.	53870	Seq. ID	OJ990615_10.0419.C255
Gene No.	113193	Strand	-
Start	1789	End	2845
Name	OJ990615_10.0419.C255.o1.tw	Method	TBLASTX:Wheat
Start	2194	End	2478
GI	none	Score	100
Exons	2194..2478, 2282..2446		
Seq. No.	53870	Seq. ID	OJ990615_10.0419.C255
Gene No.	113193	Strand	-
Start	1789	End	2845
Name	OJ990615_10.0419.C255.o2.gp	Method	AAT/GAP
Start	2377	End	2839
GI	70315_1.R1084	Score	661
Exons	2377..2464, 2574..2839		
GI Descrip.	'5091508/dbj|BAA78743.1| 2.0e-55 (AB023482) ESTs C22458(C62866),C22459(C62866) correspond to a region of the predicted gene.; Similar to genomic sequence of Arabidopsis thaliana BAC F8A5, complete sequence.(AC002292) [Oryza sativa]'		
Seq. No.	53871	Seq. ID	OJ990615_10.0419.C256
Gene No.	113194	Strand	+
Start	185	End	2192
Name	OJ990615_10.0419.C256.o1.gs	Method	GENSCAN
Start	185	End	1781
GI	none	Score	.61
Exons	185..451, 457..558, 751..785, 815..995, 1009..1049, 1097..1255, 1386..1781		
Seq. No.	53871	Seq. ID	OJ990615_10.0419.C256
Gene No.	113194	Strand	+
Start	185	End	2192
Name	OJ990615_10.0419.C256.o1.np	Method	AAT/NAP
Start	296	End	2192
GI	5295971	Score	1924
Exons	296..2192		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		
Seq. No.	53871	Seq. ID	OJ990615_10.0419.C256
Gene No.	113194	Strand	+
Start	185	End	2192
Name	OJ990615_10.0419.C256.o2.tm	Method	TBLASTX:Maize
Start	620	End	924
GI	none	Score	46
Exons	620..655, 637..666, 638..667, 655..813, 680..811, 680..847,		

691..813, 799..897, 800..922, 800..922, 802..924

Seq. No.	53871	Seq. ID	OJ990615_10.0419.C256
Gene No.	113194	Strand	+
Start	185	End	2192
Name	OJ990615_10.0419.C256.o1.tm	Method	TBLASTX:Maize
Start	1135	End	1801
GI	none	Score	326
Exons	1135..1383, 1136..1354, 1147..1383, 1290..1400, 1353..1478, 1371..1430, 1452..1550, 1461..1580, 1462..1566, 1555..1800, 1557..1799, 1591..1800, 1592..1801		

Seq. No.	53871	Seq. ID	OJ990615_10.0419.C256
Gene No.	113194	Strand	+
Start	185	End	2192
Name	OJ990615_10.0419.C256.o3.tm	Method	TBLASTX:Maize
Start	1832	End	2034
GI	none	Score	228
Exons	1832..2032, 1833..2033, 1836..2033, 1882..2034		

Seq. No.	53872	Seq. ID	OJ990615_10.0419.C257
Gene No.	113195	Strand	+
Start	1	End	1549
Name	OJ990615_10.0419.C257.o1.np	Method	AAT/NAP
Start	1	End	1549
GI	5295971	Score	1955
Exons	1..1549		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	53872	Seq. ID	OJ990615_10.0419.C257
Gene No.	113195	Strand	+
Start	1	End	1549
Name	OJ990615_10.0419.C257.o1.gs	Method	GENSCAN
Start	61	End	1520
GI	none	Score	.65
Exons	61..351, 398..573, 584..633, 698..847, 864..938, 1175..1367, 1407..1520		

Seq. No.	53872	Seq. ID	OJ990615_10.0419.C257
Gene No.	113195	Strand	+
Start	1	End	1549
Name	OJ990615_10.0419.C257.o1.tm	Method	TBLASTX:Maize
Start	134	End	505
GI	none	Score	98
Exons	134..274, 134..349, 138..380, 141..350, 142..360, 349..504, 350..505		

Seq. No.	53872	Seq. ID	OJ990615_10.0419.C257
Gene No.	113195	Strand	+
Start	1	End	1549
Name	OJ990615_10.0419.C257.o2.ts	Method	TBLASTX:Soybean
Start	141	End	589
GI	none	Score	208
Exons	141..350, 194..346, 350..418, 443..589		

Seq. No.	53872	Seq. ID	OJ990615_10.0419.C257
Gene No.	113195	Strand	+
Start	1	End	1549
Name	OJ990615_10.0419.C257.o1.ts	Method	TBLASTX:Soybean
Start	953	End	1445
GI	5509260	Score	167
Exons	953..1183, 1027..1206, 1227..1445, 1262..1423		
GI Descrip.	-		

Seq. No.	53872	Seq. ID	OJ990615_10.0419.C257
Gene No.	113195	Strand	+
Start	1	End	1549
Name	OJ990615_10.0419.C257.o2.tm	Method	TBLASTX:Maize
Start	992	End	1295
GI	none	Score	218
Exons	992..1183, 994..1161, 1227..1295		

Seq. No.	53872	Seq. ID	OJ990615_10.0419.C257
Gene No.	113195	Strand	+
Start	1	End	1549
Name	OJ990615_10.0419.C257.o1.tw	Method	TBLASTX:Wheat
Start	1120	End	1460
GI	none	Score	55
Exons	1120..1179, 1121..1183, 1227..1460, 1277..1456		

Seq. No.	53873	Seq. ID	OJ990615_10.0419.C260
Gene No.	113196	Strand	+
Start	35	End	1684
Name	OJ990615_10.0419.C260.o1.gp	Method	AAT/GAP
Start	35	End	439
GI	uC-osf1M202089g10b1	Score	779
Exons	35..439		
GI Descrip.	'4584536/emb|CAB40766.1| 3.0e-13 (AL049608) cytochrome p450 like protein [Arabidopsis thaliana]'		

Seq. No.	53873	Seq. ID	OJ990615_10.0419.C260
Gene No.	113196	Strand	+
Start	35	End	1684
Name	OJ990615_10.0419.C260.o1.gs	Method	GENSCAN
Start	42	End	1684
GI	none	Score	.94
Exons	42..938, 1019..1684		

Seq. No.	53873	Seq. ID	OJ990615_10.0419.C260
Gene No.	113196	Strand	+
Start	35	End	1684
Name	OJ990615_10.0419.C260.o1.np	Method	AAT/NAP
Start	42	End	1637
GI	6739506	Score	979
Exons	42..938, 1019..1637		
GI Descrip.	(AF122821) cytochrome P450 [Capsicum annuum]		

Seq. No.	53873	Seq. ID	OJ990615_10.0419.C260
Gene No.	113196	Strand	+
Start	35	End	1684
Name	OJ990615_10.0419.C260.o1.tm	Method	TBLASTX:Maize
Start	146	End	539

GI	none	Score	76
Exons	146..235, 159..197, 197..499, 198..539, 390..539		

Seq. No.	53873	Seq. ID	OJ990615_10.0419.C260
Gene No.	113196	Strand	+
Start	35	End	1684
Name	OJ990615_10.0419.C260.o1.ts	Method	TBLASTX:Soybean
Start	146	End	1603
GI	none	Score	317
Exons	146..340, 159..536, 389..490, 567..827, 1007..1129, 1145..1213, 1253..1318, 1364..1603, 1369..1476		

Seq. No.	53873	Seq. ID	OJ990615_10.0419.C260
Gene No.	113196	Strand	+
Start	35	End	1684
Name	OJ990615_10.0419.C260.o1.tc	Method	TBLASTX:Cress
Start	165	End	1584
GI	none	Score	41
Exons	165..194, 216..359, 248..361, 402..512, 1013..1213, 1271..1318, 1364..1534, 1369..1584		

Seq. No.	53873	Seq. ID	OJ990615_10.0419.C260
Gene No.	113196	Strand	+
Start	35	End	1684
Name	OJ990615_10.0419.C260.o2.tm	Method	TBLASTX:Maize
Start	752	End	1489
GI	none	Score	87
Exons	752..811, 753..827, 843..938, 844..894, 879..938, 887..943, 1018..1092, 1019..1138, 1088..1138, 1136..1213, 1144..1317, 1253..1318, 1274..1318, 1364..1489, 1375..1476, 1448..1489		

Seq. No.	53873	Seq. ID	OJ990615_10.0419.C260
Gene No.	113196	Strand	+
Start	35	End	1684
Name	OJ990615_10.0419.C260.o2.tw	Method	TBLASTX:Wheat
Start	891	End	1318
GI	none	Score	39
Exons	891..938, 1006..1092, 1019..1135, 1139..1318		

Seq. No.	53873	Seq. ID	OJ990615_10.0419.C260
Gene No.	113196	Strand	+
Start	35	End	1684
Name	OJ990615_10.0419.C260.o1.tw	Method	TBLASTX:Wheat
Start	1364	End	1606
GI	none	Score	283
Exons	1364..1606, 1369..1593		

Seq. No.	53874	Seq. ID	OJ990615_10.0419.C263
Gene No.	113197	Strand	+
Start	157	End	1166
Name	OJ990615_10.0419.C263.o1.gs	Method	GENSCAN
Start	157	End	1073
GI	none	Score	.64
Exons	157..471, 501..1073		

Seq. No.	53874	Seq. ID	OJ990615_10.0419.C263
Gene No.	113197	Strand	+

Start	157	End	1166
Name	OJ990615_10.0419.C263.o1.np	Method	AAT/NAP
Start	157	End	1166
GI	5524157	Score	395
Exons	157..1166		
GI Descrip.	(AF124816) cytochrome p450 isoform PM17 [Mentha x piperita]		

Seq. No.	53874	Seq. ID	OJ990615_10.0419.C263
Gene No.	113197	Strand	+
Start	157	End	1166
Name	OJ990615_10.0419.C263.o1.tm	Method	TBLASTX:Maize
Start	195	End	641
GI	none	Score	116
Exons	195..323, 235..324, 290..388, 501..641	304..492, 325..453, 498..620,	

Seq. No.	53874	Seq. ID	OJ990615_10.0419.C263
Gene No.	113197	Strand	+
Start	157	End	1166
Name	OJ990615_10.0419.C263.o1.tc	Method	TBLASTX:Cress
Start	256	End	623
GI	none	Score	56
Exons	256..309, 316..489, 522..623		

Seq. No.	53874	Seq. ID	OJ990615_10.0419.C263
Gene No.	113197	Strand	+
Start	157	End	1166
Name	OJ990615_10.0419.C263.o1.ts	Method	TBLASTX:Soybean
Start	256	End	1070
GI	none	Score	87
Exons	256..312, 328..468, 492..623, 714..941, 990..1070		

Seq. No.	53875	Seq. ID	OJ990615_10.0419.C264
Gene No.	113198	Strand	+
Start	1	End	950
Name	OJ990615_10.0419.C264.o1.np	Method	AAT/NAP
Start	1	End	950
GI	7486287	Score	118
Exons	1..224, 823..950		
GI Descrip.	hypothetical protein F28A23.60 - Arabidopsis thaliana gi|2911044|emb|CAA17554.1| (AL021961) putative protein [Arabidopsis thaliana] gi|7270368|emb|CAB80135.1| (AL161585) putative protein [Arabidopsis thaliana]		

Seq. No.	53875	Seq. ID	OJ990615_10.0419.C264
Gene No.	113198	Strand	+
Start	1	End	950
Name	OJ990615_10.0419.C264.o1.gs	Method	GENSCAN
Start	53	End	197
GI	none	Score	.7
Exons	53..197		

Seq. No.	53875	Seq. ID	OJ990615_10.0419.C264
Gene No.	113199	Strand	-
Start	1	End	204
Name	OJ990615_10.0419.C264.o1.gp	Method	AAT/GAP
Start	1	End	204

GI	23689_1.R1084	Score	373
Exons	1..204		
GI Descrip.	'2911044/emb|CAA17554| 2.0e-30 (AL021961) putative protein [Arabidopsis thaliana]'		

Seq. No.	53875	Seq. ID	OJ990615_10.0419.C264
Gene No.	113199	Strand	-
Start	1	End	204
Name	OJ990615_10.0419.C264.o1.tm	Method	TBLASTX:Maize
Start	1	End	199
GI	none	Score	256
Exons	1..198, 2..199		

Seq. No.	53876	Seq. ID	OJ990615_10.0419.C266
Gene No.	113200	Strand	-
Start	1	End	283
Name	OJ990615_10.0419.C266.o1.np	Method	AAT/NAP
Start	1	End	276
GI	5713172	Score	256
Exons	1..276		
GI Descrip.	(AF166332) cytochrome P450 [Nicotiana tabacum]		

Seq. No.	53876	Seq. ID	OJ990615_10.0419.C266
Gene No.	113200	Strand	-
Start	1	End	283
Name	OJ990615_10.0419.C266.o1.tw	Method	TBLASTX:Wheat
Start	1	End	283
GI	none	Score	231
Exons	1..276, 2..277, 149..283		

Seq. No.	53876	Seq. ID	OJ990615_10.0419.C266
Gene No.	113200	Strand	-
Start	1	End	283
Name	OJ990615_10.0419.C266.o1.tc	Method	TBLASTX:Cress
Start	8	End	273
GI	none	Score	154
Exons	8..265, 88..273		

Seq. No.	53876	Seq. ID	OJ990615_10.0419.C266
Gene No.	113200	Strand	-
Start	1	End	283
Name	OJ990615_10.0419.C266.o1.gs	Method	GENSCAN
Start	33	End	225
GI	none	Score	.44
Exons	33..225		

Seq. No.	53876	Seq. ID	OJ990615_10.0419.C266
Gene No.	113200	Strand	-
Start	1	End	283
Name	OJ990615_10.0419.C266.o1.tm	Method	TBLASTX:Maize
Start	62	End	283
GI	none	Score	212
Exons	62..283, 88..276		

Seq. No.	53876	Seq. ID	OJ990615_10.0419.C266
Gene No.	113200	Strand	-
Start	1	End	283

Name	OJ990615_10.0419.C266.o1.ts	Method	TBLASTX:Soybean
Start	74	End	273
GI	none	Score	172
Exons	74..265, 88..273		

Seq. No.	53877	Seq. ID	OJ990615_10.0419.C270
Gene No.	113201	Strand	+
Start	1628	End	2283
Name	OJ990615_10.0419.C270.o1.np	Method	AAT/NAP
Start	1628	End	2283
GI	7485846	Score	308
Exons	1628..2089, 2236..2283		
GI Descrip.	hypothetical protein F20D10.160 - Arabidopsis thaliana gi|4467110|emb|CAB37544.1| (AL035538) putative protein [Arabidopsis thaliana] gi|7270787|emb|CAB80469.1| (AL161592) putative protein [Arabidopsis thaliana]		

Seq. No.	53877	Seq. ID	OJ990615_10.0419.C270
Gene No.	113201	Strand	+
Start	1628	End	2283
Name	OJ990615_10.0419.C270.o1.tc	Method	TBLASTX:Cress
Start	1832	End	2074
GI	none	Score	355
Exons	1832..2074, 1840..2073		

Seq. No.	53877	Seq. ID	OJ990615_10.0419.C270
Gene No.	113201	Strand	+
Start	1628	End	2283
Name	OJ990615_10.0419.C270.o1.tm	Method	TBLASTX:Maize
Start	1921	End	2088
GI	none	Score	257
Exons	1921..2088, 1922..2074, 2026..2082		

Seq. No.	53878	Seq. ID	OJ990615_10.0419.C271
Gene No.	113202	Strand	+
Start	1	End	978
Name	OJ990615_10.0419.C271.o1.np	Method	AAT/NAP
Start	1	End	978
GI	7485846	Score	408
Exons	1..42, 276..562, 932..978		
GI Descrip.	hypothetical protein F20D10.160 - Arabidopsis thaliana gi|4467110|emb|CAB37544.1| (AL035538) putative protein [Arabidopsis thaliana] gi|7270787|emb|CAB80469.1| (AL161592) putative protein [Arabidopsis thaliana]		

Seq. No.	53878	Seq. ID	OJ990615_10.0419.C271
Gene No.	113202	Strand	+
Start	1	End	978
Name	OJ990615_10.0419.C271.o1.tm	Method	TBLASTX:Maize
Start	252	End	406
GI	none	Score	126
Exons	252..404, 265..396, 273..404, 275..406		

Seq. No.	53878	Seq. ID	OJ990615_10.0419.C271
Gene No.	113202	Strand	+
Start	1	End	978
Name	OJ990615_10.0419.C271.o1.tc	Method	TBLASTX:Cress

Start	273	End	494
GI	none	Score	135
Exons	273..359, 275..358, 360..386, 387..422, 392..418, 420..494, 443..487		

Seq. No.	53878	Seq. ID	OJ990615_10.0419.C271
Gene No.	113202	Strand	+
Start	1	End	978
Name	OJ990615_10.0419.C271.o1.gs	Method	GENSCAN
Start	276	End	572
GI	none	Score	.46
Exons	276..572		

Seq. No.	53878	Seq. ID	OJ990615_10.0419.C271
Gene No.	113202	Strand	+
Start	1	End	978
Name	OJ990615_10.0419.C271.o1.ts	Method	TBLASTX:Soybean
Start	303	End	524
GI	none	Score	212
Exons	303..524, 305..523		

Seq. No.	53879	Seq. ID	OJ990615_10.0419.C272
Gene No.	113203	Strand	-
Start	627	End	1869
Name	OJ990615_10.0419.C272.o1.gs	Method	GENSCAN
Start	627	End	1822
GI	none	Score	.57
Exons	627..1292, 1529..1822		

Seq. No.	53879	Seq. ID	OJ990615_10.0419.C272
Gene No.	113203	Strand	-
Start	627	End	1869
Name	OJ990615_10.0419.C272.o1.np	Method	AAT/NAP
Start	690	End	1869
GI	6739506	Score	708
Exons	690..1292, 1529..1869		
GI Descrip.	(AF122821) cytochrome P450 [Capsicum annuum]		

Seq. No.	53879	Seq. ID	OJ990615_10.0419.C272
Gene No.	113203	Strand	-
Start	627	End	1869
Name	OJ990615_10.0419.C272.o1.tm	Method	TBLASTX:Maize
Start	693	End	1292
GI	none	Score	60
Exons	693..1172, 699..812, 853..1149, 1177..1281, 1185..1292		

Seq. No.	53879	Seq. ID	OJ990615_10.0419.C272
Gene No.	113203	Strand	-
Start	627	End	1869
Name	OJ990615_10.0419.C272.o1.ts	Method	TBLASTX:Soybean
Start	693	End	1618
GI	none	Score	257
Exons	693..1292, 735..1292, 853..1293, 1529..1618		

Seq. No.	53879	Seq. ID	OJ990615_10.0419.C272
Gene No.	113203	Strand	-
Start	627	End	1869

Name	OJ990615_10.0419.C272.o1.tc	Method	TBLASTX:Cress
Start	699	End	1292
GI	none	Score	157
Exons	699..1292, 756..1154, 853..1287, 1191..1292		

Seq. No.	53879	Seq. ID	OJ990615_10.0419.C272
Gene No.	113203	Strand	-
Start	627	End	1869
Name	OJ990615_10.0419.C272.o2.tw	Method	TBLASTX:Wheat
Start	699	End	956
GI	none	Score	50
Exons	699..956, 700..738, 705..956		

Seq. No.	53879	Seq. ID	OJ990615_10.0419.C272
Gene No.	113203	Strand	-
Start	627	End	1869
Name	OJ990615_10.0419.C272.o1.tw	Method	TBLASTX:Wheat
Start	984	End	1618
GI	none	Score	169
Exons	984..1292, 984..1292, 985..1293, 1529..1618, 1533..1616		

Seq. No.	53880	Seq. ID	OJ990615_10.0419.C277
Gene No.	113204	Strand	+
Start	154	End	181
Name	OJ990615_10.0419.C277.o1.gs	Method	GENSCAN
Start	154	End	181
GI	none	Score	.59
Exons	154..181		

Seq. No.	53881	Seq. ID	OJ990615_10.0419.C279
Gene No.	113205	Strand	+
Start	1	End	1054
Name	OJ990615_10.0419.C279.o1.np	Method	AAT/NAP
Start	1	End	1054
GI	5915837	Score	417
Exons	1..87, 572..1054		
GI Descrip.	CYTOCHROME P450 71D8 (P450 CP7) gi|3334667|emb|CAA71517| (Y10493) putative cytochrome P450 [Glycine max]		

Seq. No.	53881	Seq. ID	OJ990615_10.0419.C279
Gene No.	113205	Strand	+
Start	1	End	1054
Name	OJ990615_10.0419.C279.o1.tw	Method	TBLASTX:Wheat
Start	582	End	897
GI	none	Score	65
Exons	582..683, 588..719, 589..897, 760..894, 768..896		

Seq. No.	53881	Seq. ID	OJ990615_10.0419.C279
Gene No.	113205	Strand	+
Start	1	End	1054
Name	OJ990615_10.0419.C279.o1.tm	Method	TBLASTX:Maize
Start	588	End	1028
GI	none	Score	200
Exons	588..989, 589..777, 817..984, 981..1028, 989..1027		

Seq. No.	53881	Seq. ID	OJ990615_10.0419.C279
Gene No.	113205	Strand	+

Start	1	End	1054
Name	OJ990615_10.0419.C279.o1.tc	Method	TBLASTX:Cress
Start	589	End	1052
GI	none	Score	280
Exons	589..984, 600..989, 987..1052, 989..1039		

Seq. No.	53881	Seq. ID	OJ990615_10.0419.C279
Gene No.	113205	Strand	+
Start	1	End	1054
Name	OJ990615_10.0419.C279.o1.ts	Method	TBLASTX:Soybean
Start	592	End	1028
GI	none	Score	193
Exons	592..777, 600..788, 600..791, 975..1028	810..986, 817..984, 974..1027,	

Seq. No.	53881	Seq. ID	OJ990615_10.0419.C279
Gene No.	113205	Strand	+
Start	1	End	1054
Name	OJ990615_10.0419.C279.o1.gs	Method	GENSCAN
Start	640	End	1014
GI	none	Score	.8
Exons	640..749, 816..1014		

Seq. No.	53881	Seq. ID	OJ990615_10.0419.C279
Gene No.	113205	Strand	+
Start	1	End	1054
Name	OJ990615_10.0419.C279.o1.gp	Method	AAT/GAP
Start	729	End	1054
GI	17099_1.R1084	Score	542
Exons	729..1054		
GI Descrip.	'5915836/sp|P93531|C7D7_SOLCH >gi_1762144 (U48435) putative chacoense]'	3.0e-46 CYTOCHROME P450 71D7 cytochrome P450 [Solanum	

Seq. No.	53882	Seq. ID	OJ990525_06.0421.C4
Gene No.	113206	Strand	-
Start	1	End	963
Name	OJ990525_06.0421.C4.o1.np	Method	AAT/NAP
Start	1	End	963
GI	4680179	Score	1369
Exons	1..963		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	53882	Seq. ID	OJ990525_06.0421.C4
Gene No.	113206	Strand	-
Start	1	End	963
Name	OJ990525_06.0421.C4.o1.tw	Method	TBLASTX:Wheat
Start	40	End	507
GI	none	Score	358
Exons	40..507, 86..475		

Seq. No.	53882	Seq. ID	OJ990525_06.0421.C4
Gene No.	113206	Strand	-
Start	1	End	963
Name	OJ990525_06.0421.C4.o1.tm	Method	TBLASTX:Maize
Start	73	End	436
GI	none	Score	168

Exons	73..435, 82..435, 86..436		
Seq. No.	53882	Seq. ID	OJ990525_06.0421.C4
Gene No.	113206	Strand	-
Start	1	End	963
Name	OJ990525_06.0421.C4.o2.ts	Method	TBLASTX:Soybean
Start	256	End	501
GI	none	Score	97
Exons	256..501, 257..499		
Seq. No.	53882	Seq. ID	OJ990525_06.0421.C4
Gene No.	113206	Strand	-
Start	1	End	963
Name	OJ990525_06.0421.C4.o2.tm	Method	TBLASTX:Maize
Start	472	End	963
GI	none	Score	50
Exons	472..786, 515..565, 593..646, 793..963, 818..961		
Seq. No.	53882	Seq. ID	OJ990525_06.0421.C4
Gene No.	113206	Strand	-
Start	1	End	963
Name	OJ990525_06.0421.C4.o2.tw	Method	TBLASTX:Wheat
Start	508	End	810
GI	none	Score	267
Exons	508..810, 524..808		
Seq. No.	53882	Seq. ID	OJ990525_06.0421.C4
Gene No.	113206	Strand	-
Start	1	End	963
Name	OJ990525_06.0421.C4.o1.ts	Method	TBLASTX:Soybean
Start	523	End	918
GI	none	Score	199
Exons	523..882, 524..814, 842..880, 886..918, 887..916		
Seq. No.	53882	Seq. ID	OJ990525_06.0421.C4
Gene No.	113206	Strand	-
Start	1	End	963
Name	OJ990525_06.0421.C4.o3.tw	Method	TBLASTX:Wheat
Start	811	End	963
GI	none	Score	57
Exons	811..879, 814..963, 821..958		
Seq. No.	53883	Seq. ID	OJ990525_06.0421.C5
Gene No.	113207	Strand	+
Start	333	End	4882
Name	OJ990525_06.0421.C5.o1.gs	Method	GENSCAN
Start	333	End	2888
GI	none	Score	.66
Exons	333..428, 864..902, 1471..1539, 2463..2888		
Seq. No.	53883	Seq. ID	OJ990525_06.0421.C5
Gene No.	113207	Strand	+
Start	333	End	4882
Name	OJ990525_06.0421.C5.o1.np	Method	AAT/NAP
Start	406	End	4882
GI	5257279	Score	1131
Exons	406..594, 3566..3922, 4271..4506, 4805..4882		

GI Descrip. (AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o1.np	Method	AAT/NAP
Start	1	End	5435
GI	5257279	Score	5550
Exons	1..66, 172..3124, 3341..3502, 3617..4213, 5210..5435		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o7.tw	Method	TBLASTX:Wheat
Start	313	End	699
GI	none	Score	157
Exons	313..513, 336..530, 553..699		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o1.gs	Method	GENSCAN
Start	613	End	4600
GI	none	Score	.45
Exons	613..1043, 1116..1238, 1484..2611, 2731..2992, 3140..3475, 3608..3703, 3833..4600		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o6.tm	Method	TBLASTX:Maize
Start	1233	End	1556
GI	none	Score	201
Exons	1233..1556, 1280..1381, 1494..1556		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o8.tw	Method	TBLASTX:Wheat
Start	1238	End	1616
GI	none	Score	126
Exons	1238..1360, 1239..1460, 1239..1397, 1458..1610, 1494..1616, 1505..1615		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o7.tm	Method	TBLASTX:Maize
Start	1691	End	1853
GI	none	Score	181
Exons	1691..1852, 1692..1853		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+

Start	1	End	5435
Name	OJ990525_06.0421.C6.o3.tw	Method	TBLASTX:Wheat
Start	1788	End	2270
GI	none	Score	540
Exons	1788..2270, 1799..2095, 1908..2237, 2123..2266		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o3.tm	Method	TBLASTX:Maize
Start	1854	End	2324
GI	none	Score	399
Exons	1854..2324		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o1.ts	Method	TBLASTX:Soybean
Start	2211	End	2606
GI	none	Score	54
Exons	2211..2243, 2241..2396, 2242..2400, 2247..2606, 2249..2605		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o5.tw	Method	TBLASTX:Wheat
Start	2319	End	2621
GI	none	Score	402
Exons	2319..2621, 2319..2555, 2321..2605		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o5.tm	Method	TBLASTX:Maize
Start	2325	End	2488
GI	none	Score	203
Exons	2325..2486, 2325..2480, 2330..2488		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o2.tm	Method	TBLASTX:Maize
Start	2492	End	2929
GI	none	Score	291
Exons	2492..2788, 2493..2792, 2795..2929, 2795..2920		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o4.tw	Method	TBLASTX:Wheat
Start	2622	End	3045
GI	none	Score	205
Exons	2622..2792, 2657..2794, 2794..3045, 2795..3043		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435

Name	OJ990525_06.0421.C6.o3.ts	Method	TBLASTX:Soybean
Start	2628	End	2872
GI	none	Score	144
Exons	2628..2789, 2804..2872		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o2.tw	Method	TBLASTX:Wheat
Start	3046	End	3613
GI	none	Score	576
Exons	3046..3600, 3089..3613, 3333..3608		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o1.tc	Method	TBLASTX:Cress
Start	3320	End	3637
GI	none	Score	111
Exons	3320..3493, 3327..3461, 3494..3637, 3496..3636		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o2.ts	Method	TBLASTX:Soybean
Start	3412	End	3658
GI	none	Score	262
Exons	3412..3657, 3413..3658		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o4.tm	Method	TBLASTX:Maize
Start	3460	End	3751
GI	none	Score	363
Exons	3460..3747, 3461..3751		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o1.tw	Method	TBLASTX:Wheat
Start	3620	End	4246
GI	none	Score	682
Exons	3620..4246, 3622..4245		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435
Name	OJ990525_06.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	3803	End	4392
GI	none	Score	209
Exons	3803..3961, 3805..3957, 3831..3965, 3899..4099, 3954..4100, 3958..4386, 3959..4387, 4072..4392		

Seq. No.	53884	Seq. ID	OJ990525_06.0421.C6
Gene No.	113208	Strand	+
Start	1	End	5435

Name	OJ990525_06.0421.C6.o6.tw	Method	TBLASTX:Wheat
Start	4247	End	4579
GI	none	Score	360
Exons	4247..4579		

Seq. No.	53885	Seq. ID	OJ990525_06.0421.C7
Gene No.	113209	Strand	+
Start	1407	End	1552
Name	OJ990525_06.0421.C7.o1.gp	Method	AAT/GAP
Start	1407	End	1552
GI	LIB3434-038-P1-K1-F1	Score	205
Exons	1407..1552		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	53885	Seq. ID	OJ990525_06.0421.C7
Gene No.	113210	Strand	-
Start	1226	End	1309
Name	OJ990525_06.0421.C7.o1.gs	Method	GENSCAN
Start	1226	End	1309
GI	none	Score	.67
Exons	1226..1309		

Seq. No.	53886	Seq. ID	OJ990525_06.0421.C8
Gene No.	113211	Strand	+
Start	1	End	1882
Name	OJ990525_06.0421.C8.o1.np	Method	AAT/NAP
Start	1	End	1882
GI	6539580	Score	184
Exons	1..58, 1719..1882		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	53886	Seq. ID	OJ990525_06.0421.C8
Gene No.	113211	Strand	+
Start	1	End	1882
Name	OJ990525_06.0421.C8.o1.gs	Method	GENSCAN
Start	338	End	1633
GI	none	Score	.62
Exons	338..386, 642..779, 1494..1633		

Seq. No.	53886	Seq. ID	OJ990525_06.0421.C8
Gene No.	113211	Strand	+
Start	1	End	1882
Name	OJ990525_06.0421.C8.o1.gp	Method	AAT/GAP
Start	492	End	1018
GI	LIB3434-038-P1-K1-F1	Score	749
Exons	492..1018		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	53886	Seq. ID	OJ990525_06.0421.C8
Gene No.	113212	Strand	+
Start	7547	End	7834
Name	OJ990525_06.0421.C8.o2.gp	Method	AAT/GAP
Start	7547	End	7834
GI	uC-osflcyp162g04b1	Score	496
Exons	7547..7834		

GI Descrip.	'4966364/gb|AAD34695.1|AC006341_23 3.0e-35 (AC006341) Similar to gb_AJ224359 surfeit locus protein 5 (surf5b) from Homo sapiens. [Arabidopsis thaliana]'		
Seq. No.	53886	Seq. ID	OJ990525_06.0421.C8
Gene No.	113213	Strand	+
Start	8976	End	9233
Name	OJ990525_06.0421.C8.o3.gp	Method	AAT/GAP
Start	8976	End	9233
GI	uC-osflcyp162g04b1	Score	265
Exons	8976..9031, 9117..9233		
GI Descrip.	'4966364/gb|AAD34695.1|AC006341_23 3.0e-35 (AC006341) Similar to gb_AJ224359 surfeit locus protein 5 (surf5b) from Homo sapiens. [Arabidopsis thaliana]'		
Seq. No.	53886	Seq. ID	OJ990525_06.0421.C8
Gene No.	113214	Strand	-
Start	3002	End	10276
Name	OJ990525_06.0421.C8.o2.gs	Method	GENSCAN
Start	3002	End	10276
GI	none	Score	.58
Exons	3002..3127, 3567..3778, 5040..5189, 5289..5399, 5529..5720, 6141..6446, 6581..6745, 7164..7243, 7486..7862, 7993..8099, 8405..8418, 10188..10276		
Seq. No.	53886	Seq. ID	OJ990525_06.0421.C8
Gene No.	113214	Strand	-
Start	3002	End	10276
Name	OJ990525_06.0421.C8.o2.np	Method	AAT/NAP
Start	3274	End	7694
GI	2130141	Score	920
Exons	3274..3306, 4576..5743, 7665..7694		
GI Descrip.	mudrA protein - maize transposon MuDR gi|540581 (M76978) mudrA [Zea mays] gi|595816 (U14597) mudrA gene product [Zea mays]		
Seq. No.	53886	Seq. ID	OJ990525_06.0421.C8
Gene No.	113214	Strand	-
Start	3002	End	10276
Name	OJ990525_06.0421.C8.o1.tm	Method	TBLASTX:Maize
Start	4906	End	5680
GI	none	Score	49
Exons	4906..4956, 4919..4957, 4976..5290, 5011..5337, 5302..5412, 5366..5416, 5419..5676, 5423..5680, 5498..5677		
Seq. No.	53886	Seq. ID	OJ990525_06.0421.C8
Gene No.	113214	Strand	-
Start	3002	End	10276
Name	OJ990525_06.0421.C8.o2.tm	Method	TBLASTX:Maize
Start	5866	End	6077
GI	none	Score	89
Exons	5866..6018, 5868..6077, 5925..6047		
Seq. No.	53887	Seq. ID	OJ990525_06.0421.C9
Gene No.	113215	Strand	+
Start	622	End	1158
Name	OJ990525_06.0421.C9.o1.gs	Method	GENSCAN
Start	622	End	1158

GI	none	Score	.54
Exons	622..678, 1017..1158		
Seq. No.	53888	Seq. ID	OJ990525_06.0421.C12
Gene No.	113216	Strand	+
Start	459	End	710
Name	OJ990525_06.0421.C12.o1.gs	Method	GENSCAN
Start	459	End	710
GI	none	Score	.44
Exons	459..710		
Seq. No.	53889	Seq. ID	OJ990525_06.0421.C18
Gene No.	113217	Strand	+
Start	4	End	706
Name	OJ990525_06.0421.C18.o1.gs	Method	GENSCAN
Start	4	End	706
GI	none	Score	.88
Exons	4..137, 174..304, 396..487, 548..706		
Seq. No.	53890	Seq. ID	OJ990525_06.0421.C22
Gene No.	113218	Strand	+
Start	1	End	1167
Name	OJ990525_06.0421.C22.o1.np	Method	AAT/NAP
Start	1	End	1167
GI	4056425	Score	97
Exons	1..132, 1098..1167		
GI Descrip.	(AC005322) ESTs gb|H36249, gb|AA59732 and gb|AA651219 come from this gene. [Arabidopsis thaliana]		
Seq. No.	53891	Seq. ID	OJ990525_06.0421.C23
Gene No.	113219	Strand	-
Start	1	End	782
Name	OJ990525_06.0421.C23.o1.np	Method	AAT/NAP
Start	1	End	782
GI	3850621	Score	598
Exons	1..162, 262..378, 471..782		
GI Descrip.	(Y15382) putative RNA binding protein [Arabidopsis thaliana]		
Seq. No.	53891	Seq. ID	OJ990525_06.0421.C23
Gene No.	113219	Strand	-
Start	1	End	782
Name	OJ990525_06.0421.C23.o1.tm	Method	TBLASTX:Maize
Start	65	End	716
GI	none	Score	135
Exons	65..163, 73..165, 74..163, 126..164, 244..384, 254..379, 262..414, 469..687, 471..695, 471..716, 475..714		
Seq. No.	53891	Seq. ID	OJ990525_06.0421.C23
Gene No.	113219	Strand	-
Start	1	End	782
Name	OJ990525_06.0421.C23.o1.ts	Method	TBLASTX:Soybean
Start	65	End	716
GI	none	Score	118
Exons	65..163, 73..165, 74..163, 244..384, 254..379, 469..672, 471..716, 475..693		
Seq. No.	53891	Seq. ID	OJ990525_06.0421.C23

Gene No.	113219	Strand	-
Start	1	End	782
Name	OJ990525_06.0421.C23.o1.gp	Method	AAT/GAP
Start	73	End	694
GI	1450_1.R1084	Score	776
Exons	73..162, 262..378, 471..694		
GI Descrip.	'4337177/gb|AAD18098| 1.0e-163 (AC006416) Identical to gb_Y10557 g5bf gene from Arabidopsis thaliana. ESTs gb_R30578, gb_R90475, gb_T22384, gb_T22425, gb_N64934 and gb_T46767 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	53891	Seq. ID	OJ990525_06.0421.C23
Gene No.	113219	Strand	-
Start	1	End	782
Name	OJ990525_06.0421.C23.o1.gs	Method	GENSCAN
Start	73	End	692
GI	none	Score	.99
Exons	73..162, 262..378, 471..692		

Seq. No.	53891	Seq. ID	OJ990525_06.0421.C23
Gene No.	113219	Strand	-
Start	1	End	782
Name	OJ990525_06.0421.C23.o1.tc	Method	TBLASTX:Cress
Start	73	End	716
GI	none	Score	115
Exons	73..165, 77..163, 244..384, 254..379, 256..381, 471..683, 471..716, 475..714		

Seq. No.	53892	Seq. ID	OJ990525_06.0421.C24
Gene No.	113220	Strand	+
Start	1	End	1235
Name	OJ990525_06.0421.C24.o1.gp	Method	AAT/GAP
Start	1	End	246
GI	uC-osflM202098c02b1	Score	426
Exons	1..246		
GI Descrip.	'4378066/gb|AAD19359.1| 2.0e-13 (AF098806) polyprotein [Sorghum bicolor] >gi_4680208_gb_AAD27571.1_AF114171_12 (AF114171) polyprotein [Sorghum bicolor]'		

Seq. No.	53892	Seq. ID	OJ990525_06.0421.C24
Gene No.	113220	Strand	+
Start	1	End	1235
Name	OJ990525_06.0421.C24.o1.np	Method	AAT/NAP
Start	1	End	1235
GI	7489805	Score	970
Exons	1..1235		
GI Descrip.	polyprotein - maize retrotransposon Cinful-1 gi|4206306|gb|AAD11615.1| (AF049110) prpol [Zea mays]		

Seq. No.	53892	Seq. ID	OJ990525_06.0421.C24
Gene No.	113220	Strand	+
Start	1	End	1235
Name	OJ990525_06.0421.C24.o3.tw	Method	TBLASTX:Wheat
Start	18	End	240
GI	none	Score	179
Exons	18..239, 19..240		

Seq. No.	53892	Seq. ID	OJ990525_06.0421.C24
Gene No.	113220	Strand	+
Start	1	End	1235
Name	OJ990525_06.0421.C24.o1.gs	Method	GENSCAN
Start	62	End	1077
GI	none	Score	.75
Exons	62..1077		

Seq. No.	53892	Seq. ID	OJ990525_06.0421.C24
Gene No.	113220	Strand	+
Start	1	End	1235
Name	OJ990525_06.0421.C24.o1.tw	Method	TBLASTX:Wheat
Start	445	End	900
GI	none	Score	446
Exons	445..900, 657..899, 688..774		

Seq. No.	53892	Seq. ID	OJ990525_06.0421.C24
Gene No.	113220	Strand	+
Start	1	End	1235
Name	OJ990525_06.0421.C24.o1.tm	Method	TBLASTX:Maize
Start	573	End	930
GI	none	Score	414
Exons	573..929, 574..930, 616..930		

Seq. No.	53892	Seq. ID	OJ990525_06.0421.C24
Gene No.	113220	Strand	+
Start	1	End	1235
Name	OJ990525_06.0421.C24.o2.tw	Method	TBLASTX:Wheat
Start	903	End	1195
GI	none	Score	190
Exons	903..968, 907..1074, 913..1071, 1077..1157, 1148..1195		

Seq. No.	53892	Seq. ID	OJ990525_06.0421.C24
Gene No.	113220	Strand	+
Start	1	End	1235
Name	OJ990525_06.0421.C24.o2.tm	Method	TBLASTX:Maize
Start	958	End	1180
GI	none	Score	110
Exons	958..1074, 981..1112, 1076..1180, 1077..1163		

Seq. No.	53893	Seq. ID	OJ990525_06.0421.C25
Gene No.	113221	Strand	+
Start	1	End	2444
Name	OJ990525_06.0421.C25.o1.np	Method	AAT/NAP
Start	1	End	2444
GI	7340881	Score	101
Exons	1..119, 498..620, 726..774, 2419..2444		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	53893	Seq. ID	OJ990525_06.0421.C25
Gene No.	113221	Strand	+
Start	1	End	2444
Name	OJ990525_06.0421.C25.o2.np	Method	AAT/NAP
Start	1319	End	2215
GI	5042448	Score	1322
Exons	1319..1880, 1920..2215		
GI Descrip.	(AC007789) putative ORF0 protein of RIRE8B gypsy-type		

retrotransposon [Oryza sativa]

Seq. No.	53893	Seq. ID	OJ990525_06.0421.C25
Gene No.	113222	Strand	+
Start	2471	End	4153
Name	OJ990525_06.0421.C25.o3.np	Method	AAT/NAP
Start	2471	End	4153
GI	4680179	Score	2707
Exons	2471..4153		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	53893	Seq. ID	OJ990525_06.0421.C25
Gene No.	113222	Strand	+
Start	2471	End	4153
Name	OJ990525_06.0421.C25.o1.tw	Method	TBLASTX:Wheat
Start	2734	End	3097
GI	none	Score	304
Exons	2734..2838, 2738..3097, 2863..3087		

Seq. No.	53893	Seq. ID	OJ990525_06.0421.C25
Gene No.	113222	Strand	+
Start	2471	End	4153
Name	OJ990525_06.0421.C25.o1.tm	Method	TBLASTX:Maize
Start	2978	End	3310
GI	none	Score	210
Exons	2978..3310, 2978..3262		

Seq. No.	53893	Seq. ID	OJ990525_06.0421.C25
Gene No.	113222	Strand	+
Start	2471	End	4153
Name	OJ990525_06.0421.C25.o2.tm	Method	TBLASTX:Maize
Start	3614	End	3934
GI	none	Score	184
Exons	3614..3934, 3658..3759		

Seq. No.	53893	Seq. ID	OJ990525_06.0421.C25
Gene No.	113222	Strand	+
Start	2471	End	4153
Name	OJ990525_06.0421.C25.o2.tw	Method	TBLASTX:Wheat
Start	3617	End	4033
GI	none	Score	148
Exons	3617..3826, 3652..3765, 3848..4033, 3877..4032		

Seq. No.	53894	Seq. ID	OJ990525_06.0421.C26
Gene No.	113223	Strand	+
Start	1	End	3195
Name	OJ990525_06.0421.C26.o1.np	Method	AAT/NAP
Start	1	End	2819
GI	4680179	Score	4635
Exons	1..2819		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	53894	Seq. ID	OJ990525_06.0421.C26
Gene No.	113223	Strand	+
Start	1	End	3195
Name	OJ990525_06.0421.C26.o6.tw	Method	TBLASTX:Wheat
Start	5	End	400

GI	none	Score	147
Exons	5..265, 305..400		

Seq. No.	53894	Seq. ID	OJ990525_06.0421.C26
Gene No.	113223	Strand	+
Start	1	End	3195
Name	OJ990525_06.0421.C26.o1.gs	Method	GENSCAN
Start	134	End	3195
GI	none	Score	.78
Exons	134..613, 695..995, 1133..2110, 2258..2855, 2948..3044, 3084..3195		

Seq. No.	53894	Seq. ID	OJ990525_06.0421.C26
Gene No.	113223	Strand	+
Start	1	End	3195
Name	OJ990525_06.0421.C26.o4.tw	Method	TBLASTX:Wheat
Start	404	End	886
GI	none	Score	533
Exons	404..886, 508..843		

Seq. No.	53894	Seq. ID	OJ990525_06.0421.C26
Gene No.	113223	Strand	+
Start	1	End	3195
Name	OJ990525_06.0421.C26.o3.tm	Method	TBLASTX:Maize
Start	473	End	940
GI	none	Score	378
Exons	473..940, 544..843		

Seq. No.	53894	Seq. ID	OJ990525_06.0421.C26
Gene No.	113223	Strand	+
Start	1	End	3195
Name	OJ990525_06.0421.C26.o1.ts	Method	TBLASTX:Soybean
Start	827	End	1212
GI	none	Score	57
Exons	827..859, 827..871, 863..991, 863..1027, 976..1212, 979..1083, 993..1211		

Seq. No.	53894	Seq. ID	OJ990525_06.0421.C26
Gene No.	113223	Strand	+
Start	1	End	3195
Name	OJ990525_06.0421.C26.o5.tw	Method	TBLASTX:Wheat
Start	935	End	1227
GI	none	Score	71
Exons	935..991, 991..1227, 993..1226		

Seq. No.	53894	Seq. ID	OJ990525_06.0421.C26
Gene No.	113223	Strand	+
Start	1	End	3195
Name	OJ990525_06.0421.C26.o5.tm	Method	TBLASTX:Maize
Start	991	End	1293
GI	none	Score	282
Exons	991..1293, 1014..1223, 1039..1245		

Seq. No.	53894	Seq. ID	OJ990525_06.0421.C26
Gene No.	113223	Strand	+
Start	1	End	3195
Name	OJ990525_06.0421.C26.o2.tw	Method	TBLASTX:Wheat

Start	1228	End	1737
GI	none	Score	619
Exons	1228..1737, 1260..1571, 1306..1653		

Seq. No.	53894	Seq. ID	OJ990525_06.0421.C26
Gene No.	113223	Strand	+
Start	1	End	3195
Name	OJ990525_06.0421.C26.o3.ts	Method	TBLASTX:Soybean
Start	1234	End	1479
GI	none	Score	187
Exons	1234..1479		

Seq. No.	53894	Seq. ID	OJ990525_06.0421.C26
Gene No.	113223	Strand	+
Start	1	End	3195
Name	OJ990525_06.0421.C26.o1.tm	Method	TBLASTX:Maize
Start	1300	End	1665
GI	none	Score	472
Exons	1300..1653, 1305..1568, 1352..1663, 1354..1665		

Seq. No.	53894	Seq. ID	OJ990525_06.0421.C26
Gene No.	113223	Strand	+
Start	1	End	3195
Name	OJ990525_06.0421.C26.o3.tw	Method	TBLASTX:Wheat
Start	1740	End	2220
GI	none	Score	155
Exons	1740..2189, 1741..2220, 1774..2187, 1965..2219		

Seq. No.	53894	Seq. ID	OJ990525_06.0421.C26
Gene No.	113223	Strand	+
Start	1	End	3195
Name	OJ990525_06.0421.C26.o2.ts	Method	TBLASTX:Soybean
Start	2008	End	2268
GI	none	Score	280
Exons	2008..2268, 2013..2267		

Seq. No.	53894	Seq. ID	OJ990525_06.0421.C26
Gene No.	113223	Strand	+
Start	1	End	3195
Name	OJ990525_06.0421.C26.o4.tm	Method	TBLASTX:Maize
Start	2067	End	2358
GI	none	Score	362
Exons	2067..2354, 2068..2358		

Seq. No.	53894	Seq. ID	OJ990525_06.0421.C26
Gene No.	113223	Strand	+
Start	1	End	3195
Name	OJ990525_06.0421.C26.o1.tw	Method	TBLASTX:Wheat
Start	2227	End	2832
GI	none	Score	678
Exons	2227..2832, 2229..2831		

Seq. No.	53894	Seq. ID	OJ990525_06.0421.C26
Gene No.	113223	Strand	+
Start	1	End	3195
Name	OJ990525_06.0421.C26.o2.tm	Method	TBLASTX:Maize
Start	2407	End	2832

GI	none	Score	221
Exons	2407..2568, 2410..2559, 2415..2561, 2566..2832, 2568..2819		

Seq. No.	53895	Seq. ID	OJ990525_06.0421.C27
Gene No.	113224	Strand	+
Start	317	End	2065
Name	OJ990525_06.0421.C27.o4.np	Method	AAT/NAP
Start	317	End	2065
GI	6815109	Score	81
Exons	317..423, 1708..1867, 1907..2065		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	53895	Seq. ID	OJ990525_06.0421.C27
Gene No.	113224	Strand	+
Start	317	End	2065
Name	OJ990525_06.0421.C27.o1.gs	Method	GENSCAN
Start	491	End	1123
GI	none	Score	.49
Exons	491..595, 1064..1123		

Seq. No.	53895	Seq. ID	OJ990525_06.0421.C27
Gene No.	113224	Strand	+
Start	317	End	2065
Name	OJ990525_06.0421.C27.o2.np	Method	AAT/NAP
Start	491	End	2065
GI	6721561	Score	87
Exons	491..597, 1931..2065		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53895	Seq. ID	OJ990525_06.0421.C27
Gene No.	113224	Strand	+
Start	317	End	2065
Name	OJ990525_06.0421.C27.o1.gp	Method	AAT/GAP
Start	1085	End	1169
GI	uC-osflcyp088b12b1	Score	106
Exons	1085..1169		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 3.0e-36 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	53895	Seq. ID	OJ990525_06.0421.C27
Gene No.	113224	Strand	+
Start	317	End	2065
Name	OJ990525_06.0421.C27.o3.np	Method	AAT/NAP
Start	1160	End	2065
GI	7248392	Score	145
Exons	1160..1257, 1873..2065		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	53895	Seq. ID	OJ990525_06.0421.C27
Gene No.	113225	Strand	-
Start	369	End	458
Name	OJ990525_06.0421.C27.o1.np	Method	AAT/NAP
Start	369	End	458

GI	4680183	Score	130
Exons	369..458		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	53895	Seq. ID	OJ990525_06.0421.C27
Gene No.	113226	Strand	-
Start	1723	End	1980
Name	OJ990525_06.0421.C27.o2.gs	Method	GENSCAN
Start	1723	End	1980
GI	none	Score	.52
Exons	1723..1980		

Seq. No.	53896	Seq. ID	OJ990525_06.0421.C28
Gene No.	113227	Strand	+
Start	39	End	5851
Name	OJ990525_06.0421.C28.o1.gs	Method	GENSCAN
Start	39	End	5799
GI	none	Score	.44
Exons	39..121, 902..1006, 1245..1290, 2227..2291, 2337..2980, 3031..3059, 3286..5454, 5543..5581, 5653..5799		

Seq. No.	53896	Seq. ID	OJ990525_06.0421.C28
Gene No.	113227	Strand	+
Start	39	End	5851
Name	OJ990525_06.0421.C28.o1.gp	Method	AAT/GAP
Start	957	End	1338
GI	uC-osflcyp033a04b1	Score	687
Exons	957..1338		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	53896	Seq. ID	OJ990525_06.0421.C28
Gene No.	113227	Strand	+
Start	39	End	5851
Name	OJ990525_06.0421.C28.o3.np	Method	AAT/NAP
Start	3283	End	5851
GI	4680179	Score	2062
Exons	3283..4359, 4393..5520, 5802..5851		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	53896	Seq. ID	OJ990525_06.0421.C28
Gene No.	113228	Strand	-
Start	890	End	5851
Name	OJ990525_06.0421.C28.o1.np	Method	AAT/NAP
Start	890	End	5851
GI	4680186	Score	379
Exons	890..1090, 1929..1980, 5806..5851		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	53896	Seq. ID	OJ990525_06.0421.C28
Gene No.	113228	Strand	-
Start	890	End	5851
Name	OJ990525_06.0421.C28.o2.tw	Method	TBLASTX:Wheat
Start	2984	End	5772
GI	none	Score	51
Exons	2984..3046, 5508..5771, 5516..5767, 5581..5772		

Seq. No.	53896	Seq. ID	OJ990525_06.0421.C28
Gene No.	113228	Strand	-
Start	890	End	5851
Name	OJ990525_06.0421.C28.o3.tw	Method	TBLASTX:Wheat
Start	3517	End	3879
GI	none	Score	292
Exons	3517..3879, 3519..3878		

Seq. No.	53896	Seq. ID	OJ990525_06.0421.C28
Gene No.	113228	Strand	-
Start	890	End	5851
Name	OJ990525_06.0421.C28.o3.tm	Method	TBLASTX:Maize
Start	3760	End	4065
GI	none	Score	239
Exons	3760..4065, 3774..3938		

Seq. No.	53896	Seq. ID	OJ990525_06.0421.C28
Gene No.	113228	Strand	-
Start	890	End	5851
Name	OJ990525_06.0421.C28.o4.tm	Method	TBLASTX:Maize
Start	4384	End	4737
GI	none	Score	183
Exons	4384..4737		

Seq. No.	53896	Seq. ID	OJ990525_06.0421.C28
Gene No.	113228	Strand	-
Start	890	End	5851
Name	OJ990525_06.0421.C28.o4.tw	Method	TBLASTX:Wheat
Start	4420	End	4857
GI	none	Score	164
Exons	4420..4629, 4476..4628, 4674..4787, 4675..4788, 4816..4857		

Seq. No.	53896	Seq. ID	OJ990525_06.0421.C28
Gene No.	113228	Strand	-
Start	890	End	5851
Name	OJ990525_06.0421.C28.o1.tw	Method	TBLASTX:Wheat
Start	4953	End	5439
GI	none	Score	48
Exons	4953..5396, 4957..5007, 5062..5439		

Seq. No.	53896	Seq. ID	OJ990525_06.0421.C28
Gene No.	113228	Strand	-
Start	890	End	5851
Name	OJ990525_06.0421.C28.o1.tm	Method	TBLASTX:Maize
Start	5062	End	5493
GI	none	Score	356
Exons	5062..5493, 5101..5274, 5292..5450		

Seq. No.	53896	Seq. ID	OJ990525_06.0421.C28
Gene No.	113228	Strand	-
Start	890	End	5851
Name	OJ990525_06.0421.C28.o1.ts	Method	TBLASTX:Soybean
Start	5568	End	5811
GI	none	Score	212
Exons	5568..5771, 5573..5767, 5775..5804, 5776..5811		

Seq. No.	53896	Seq. ID	OJ990525_06.0421.C28

Gene No.	113228	Strand	-
Start	890	End	5851
Name	OJ990525_06.0421.C28.o2.tm	Method	TBLASTX:Maize
Start	5589	End	5814
GI	none	Score	259
Exons	5589..5771, 5592..5771, 5594..5779, 5617..5772, 5776..5814		

Seq. No.	53897	Seq. ID	OJ990525_06.0421.C29
Gene No.	113229	Strand	+
Start	1	End	1877
Name	OJ990525_06.0421.C29.o1.np	Method	AAT/NAP
Start	1	End	1877
GI	4680179	Score	2577
Exons	1..1877		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	53897	Seq. ID	OJ990525_06.0421.C29
Gene No.	113229	Strand	+
Start	1	End	1877
Name	OJ990525_06.0421.C29.o3.tm	Method	TBLASTX:Maize
Start	45	End	299
GI	none	Score	157
Exons	45..167, 46..162, 165..299		

Seq. No.	53897	Seq. ID	OJ990525_06.0421.C29
Gene No.	113229	Strand	+
Start	1	End	1877
Name	OJ990525_06.0421.C29.o4.tw	Method	TBLASTX:Wheat
Start	49	End	287
GI	none	Score	162
Exons	49..162, 51..167, 164..286, 165..287		

Seq. No.	53897	Seq. ID	OJ990525_06.0421.C29
Gene No.	113229	Strand	+
Start	1	End	1877
Name	OJ990525_06.0421.C29.o2.tw	Method	TBLASTX:Wheat
Start	288	End	866
GI	none	Score	663
Exons	288..866, 299..865		

Seq. No.	53897	Seq. ID	OJ990525_06.0421.C29
Gene No.	113229	Strand	+
Start	1	End	1877
Name	OJ990525_06.0421.C29.o1.tc	Method	TBLASTX:Cress
Start	573	End	890
GI	none	Score	90
Exons	573..746, 747..890, 749..889		

Seq. No.	53897	Seq. ID	OJ990525_06.0421.C29
Gene No.	113229	Strand	+
Start	1	End	1877
Name	OJ990525_06.0421.C29.o1.ts	Method	TBLASTX:Soybean
Start	654	End	914
GI	none	Score	296
Exons	654..914, 659..913		

Seq. No.	53897	Seq. ID	OJ990525_06.0421.C29

Gene No.	113229	Strand	+
Start	1	End	1877
Name	OJ990525_06.0421.C29.o2.tm	Method	TBLASTX:Maize
Start	713	End	1004
GI	none	Score	374
Exons	713..1000, 714..1004		

Seq. No.	53897	Seq. ID	OJ990525_06.0421.C29
Gene No.	113229	Strand	+
Start	1	End	1877
Name	OJ990525_06.0421.C29.o1.tw	Method	TBLASTX:Wheat
Start	873	End	1499
GI	none	Score	680
Exons	873..1499, 929..1378, 966..1496		

Seq. No.	53897	Seq. ID	OJ990525_06.0421.C29
Gene No.	113229	Strand	+
Start	1	End	1877
Name	OJ990525_06.0421.C29.o1.tm	Method	TBLASTX:Maize
Start	1053	End	1652
GI	none	Score	225
Exons	1053..1214, 1056..1208, 1212..1652, 1214..1372, 1374..1637		

Seq. No.	53897	Seq. ID	OJ990525_06.0421.C29
Gene No.	113229	Strand	+
Start	1	End	1877
Name	OJ990525_06.0421.C29.o3.tw	Method	TBLASTX:Wheat
Start	1499	End	1832
GI	none	Score	318
Exons	1499..1768, 1500..1832, 1503..1811		

Seq. No.	53898	Seq. ID	OJ990525_06.0421.C30
Gene No.	113230	Strand	+
Start	1	End	2732
Name	OJ990525_06.0421.C30.o1.np	Method	AAT/NAP
Start	1	End	401
GI	4680179	Score	543
Exons	1..401		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	53898	Seq. ID	OJ990525_06.0421.C30
Gene No.	113230	Strand	+
Start	1	End	2732
Name	OJ990525_06.0421.C30.o1.gs	Method	GENSCAN
Start	117	End	2732
GI	none	Score	.44
Exons	117..387, 1228..1406, 1602..1648, 2494..2732		

Seq. No.	53898	Seq. ID	OJ990525_06.0421.C30
Gene No.	113231	Strand	-
Start	1	End	3252
Name	OJ990525_06.0421.C30.o1.tm	Method	TBLASTX:Maize
Start	1	End	260
GI	none	Score	197
Exons	1..159, 2..160, 164..259, 165..260		

Seq. No.	53898	Seq. ID	OJ990525_06.0421.C30

Gene No.	113231	Strand	-
Start	1	End	3252
Name	OJ990525_06.0421.C30.o2.np	Method	AAT/NAP
Start	1	End	3252
GI	5852180	Score	402
Exons	1..133, 1150..1561, 1612..1732, 3175..3252		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	53898	Seq. ID	OJ990525_06.0421.C30
Gene No.	113231	Strand	-
Start	1	End	3252
Name	OJ990525_06.0421.C30.o1.tw	Method	TBLASTX:Wheat
Start	2	End	278
GI	none	Score	205
Exons	2..160, 7..159, 10..165, 174..278		

Seq. No.	53899	Seq. ID	OJ990525_06.0421.C31
Gene No.	113232	Strand	+
Start	1	End	1967
Name	OJ990525_06.0421.C31.o1.np	Method	AAT/NAP
Start	1	End	1967
GI	7489805	Score	657
Exons	1..900, 1938..1967		
GI Descrip.	polyprotein - maize retrotransposon Cinful-1 gi|4206306|gb|AAD11615.1| (AF049110) prpol [Zea mays]		

Seq. No.	53899	Seq. ID	OJ990525_06.0421.C31
Gene No.	113233	Strand	-
Start	243	End	1903
Name	OJ990525_06.0421.C31.o1.ts	Method	TBLASTX:Soybean
Start	156	End	524
GI	none	Score	212
Exons	156..524, 305..523		

Seq. No.	53899	Seq. ID	OJ990525_06.0421.C31
Gene No.	113233	Strand	-
Start	243	End	1903
Name	OJ990525_06.0421.C31.o1.tw	Method	TBLASTX:Wheat
Start	167	End	595
GI	none	Score	291
Exons	167..280, 168..569, 308..595		

Seq. No.	53899	Seq. ID	OJ990525_06.0421.C31
Gene No.	113233	Strand	-
Start	243	End	1903
Name	OJ990525_06.0421.C31.o1.gs	Method	GENSCAN
Start	243	End	1903
GI	none	Score	.48
Exons	243..407, 615..1751, 1812..1903		

Seq. No.	53900	Seq. ID	OJ990525_06.0421.C32
Gene No.	113234	Strand	-
Start	275	End	1731
Name	OJ990525_06.0421.C32.o1.gs	Method	GENSCAN
Start	275	End	1731
GI	none	Score	.45
Exons	275..797, 1414..1527, 1571..1731		

Seq. No.	53901	Seq. ID	OJ990525_06.0421.C33
Gene No.	113235	Strand	+
Start	492	End	870
Name	OJ990525_06.0421.C33.o1.gs	Method	GENSCAN
Start	492	End	870
GI	none	Score	.93
Exons	492..678, 847..870		

Seq. No.	53901	Seq. ID	OJ990525_06.0421.C33
Gene No.	113236	Strand	-
Start	1364	End	1435
Name	OJ990525_06.0421.C33.o2.gs	Method	GENSCAN
Start	1364	End	1435
GI	none	Score	.76
Exons	1364..1435		

Seq. No.	53902	Seq. ID	OJ990525_06.0421.C34
Gene No.	113237	Strand	-
Start	4526	End	5824
Name	OJ990525_06.0421.C34.o2.gs	Method	GENSCAN
Start	4526	End	5824
GI	none	Score	.99
Exons	4526..5824		

Seq. No.	53903	Seq. ID	OJ990525_06.0421.C35
Gene No.	113238	Strand	+
Start	503	End	1551
Name	OJ990525_06.0421.C35.o1.gs	Method	GENSCAN
Start	503	End	925
GI	none	Score	.92
Exons	503..596, 783..925		

Seq. No.	53903	Seq. ID	OJ990525_06.0421.C35
Gene No.	113238	Strand	+
Start	503	End	1551
Name	OJ990525_06.0421.C35.o1.np	Method	AAT/NAP
Start	543	End	1551
GI	7489554	Score	76
Exons	543..734, 1518..1551		
GI Descrip.	probable ribosomal protein S11, mitochondrial - rice gi|1841357|dbj|BAA12798.1| (D85382) mitochondrial ribosomal protein S11 (nuclear encoded) [Oryza sativa]		

Seq. No.	53903	Seq. ID	OJ990525_06.0421.C35
Gene No.	113239	Strand	-
Start	216	End	1668
Name	OJ990525_06.0421.C35.o3.np	Method	AAT/NAP
Start	216	End	1668
GI	82484	Score	136
Exons	216..244, 1564..1668		
GI Descrip.	hypothetical protein 1 - rice gi|20382|emb|CAA29825| (X06611) put. ORF 2 [Oryza sativa]		

Seq. No.	53903	Seq. ID	OJ990525_06.0421.C35
Gene No.	113239	Strand	-
Start	216	End	1668

Name	OJ990525_06.0421.C35.o2.np	Method	AAT/NAP
Start	772	End	1554
GI	6015577	Score	118
Exons	772..895, 1311..1554		
GI Descrip.	(X02451) URF 3 [Zea mays]		

Seq. No.	53903	Seq. ID	OJ990525_06.0421.C35
Gene No.	113239	Strand	-
Start	216	End	1668
Name	OJ990525_06.0421.C35.o2.gs	Method	GENSCAN
Start	1238	End	1477
GI	none	Score	.72
Exons	1238..1477		

Seq. No.	53904	Seq. ID	OJ990525_06.0421.C36
Gene No.	113240	Strand	+
Start	1623	End	3582
Name	OJ990525_06.0421.C36.o1.np	Method	AAT/NAP
Start	1623	End	3582
GI	6539580	Score	78
Exons	1623..1664, 2874..2976, 3078..3194, 3545..3582		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	53904	Seq. ID	OJ990525_06.0421.C36
Gene No.	113240	Strand	+
Start	1623	End	3582
Name	OJ990525_06.0421.C36.o2.gs	Method	GENSCAN
Start	2291	End	3377
GI	none	Score	.73
Exons	2291..2293, 2874..2976, 3214..3377		

Seq. No.	53905	Seq. ID	OJ990525_06.0421.C37
Gene No.	113241	Strand	-
Start	314	End	535
Name	OJ990525_06.0421.C37.o1.gs	Method	GENSCAN
Start	314	End	535
GI	none	Score	.41
Exons	314..535		

Seq. No.	53906	Seq. ID	OJ990525_06.0421.C38
Gene No.	113242	Strand	+
Start	409	End	511
Name	OJ990525_06.0421.C38.o1.gs	Method	GENSCAN
Start	409	End	511
GI	none	Score	.85
Exons	409..511		

Seq. No.	53907	Seq. ID	OJ990525_06.0421.C39
Gene No.	113243	Strand	+
Start	1	End	536
Name	OJ990525_06.0421.C39.o1.np	Method	AAT/NAP
Start	1	End	323
GI	6862956	Score	291
Exons	1..323		
GI Descrip.	(AC019018) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53907	Seq. ID	OJ990525_06.0421.C39

Gene No.	113243	Strand	+
Start	1	End	536
Name	OJ990525_06.0421.C39.o1.gs	Method	GENSCAN
Start	192	End	536
GI	none	Score	.44
Exons	192..397, 503..536		

Seq. No.	53907	Seq. ID	OJ990525_06.0421.C39
Gene No.	113244	Strand	-
Start	685	End	905
Name	OJ990525_06.0421.C39.o1.tm	Method	TBLASTX:Maize
Start	2	End	215
GI	none	Score	282
Exons	2..214, 3..215		

Seq. No.	53907	Seq. ID	OJ990525_06.0421.C39
Gene No.	113244	Strand	-
Start	685	End	905
Name	OJ990525_06.0421.C39.o2.gs	Method	GENSCAN
Start	685	End	905
GI	none	Score	.94
Exons	685..809, 893..905		

Seq. No.	53908	Seq. ID	OJ990525_06.0421.C40
Gene No.	113245	Strand	-
Start	1	End	870
Name	OJ990525_06.0421.C40.o1.np	Method	AAT/NAP
Start	1	End	870
GI	7489805	Score	740
Exons	1..870		
GI Descrip.	polyprotein - maize retrotransposon Cinful-1 gi|4206306|gb|AAD11615.1| (AF049110) prpol [Zea mays]		

Seq. No.	53908	Seq. ID	OJ990525_06.0421.C40
Gene No.	113245	Strand	-
Start	1	End	870
Name	OJ990525_06.0421.C40.o2.tw	Method	TBLASTX:Wheat
Start	60	End	245
GI	none	Score	71
Exons	60..242, 61..222, 90..245		

Seq. No.	53908	Seq. ID	OJ990525_06.0421.C40
Gene No.	113245	Strand	-
Start	1	End	870
Name	OJ990525_06.0421.C40.o1.gs	Method	GENSCAN
Start	99	End	818
GI	none	Score	.75
Exons	99..443, 495..643, 701..818		

Seq. No.	53908	Seq. ID	OJ990525_06.0421.C40
Gene No.	113245	Strand	-
Start	1	End	870
Name	OJ990525_06.0421.C40.o1.ts	Method	TBLASTX:Soybean
Start	303	End	653
GI	none	Score	88
Exons	303..653, 493..636		

Seq. No.	53908	Seq. ID	OJ990525_06.0421.C40
Gene No.	113245	Strand	-
Start	1	End	870
Name	OJ990525_06.0421.C40.o1.tw	Method	TBLASTX:Wheat
Start	312	End	732
GI	none	Score	233
Exons	312..731, 313..732		

Seq. No.	53908	Seq. ID	OJ990525_06.0421.C40
Gene No.	113245	Strand	-
Start	1	End	870
Name	OJ990525_06.0421.C40.o1.tm	Method	TBLASTX:Maize
Start	405	End	789
GI	none	Score	218
Exons	405..761, 418..789, 554..766, 565..771		

Seq. No.	53909	Seq. ID	OJ990525_06.0421.C52
Gene No.	113246	Strand	+
Start	1	End	1190
Name	OJ990525_06.0421.C52.o1.np	Method	AAT/NAP
Start	1	End	1190
GI	4263825	Score	567
Exons	1..1190		
GI Descrip.	(AC006067) putative helicase [Arabidopsis thaliana]		

Seq. No.	53909	Seq. ID	OJ990525_06.0421.C52
Gene No.	113246	Strand	+
Start	1	End	1190
Name	OJ990525_06.0421.C52.o1.gs	Method	GENSCAN
Start	193	End	1175
GI	none	Score	.7
Exons	193..528, 585..1175		

Seq. No.	53909	Seq. ID	OJ990525_06.0421.C52
Gene No.	113246	Strand	+
Start	1	End	1190
Name	OJ990525_06.0421.C52.o2.tm	Method	TBLASTX:Maize
Start	578	End	770
GI	none	Score	271
Exons	578..766, 579..770		

Seq. No.	53909	Seq. ID	OJ990525_06.0421.C52
Gene No.	113246	Strand	+
Start	1	End	1190
Name	OJ990525_06.0421.C52.o1.tw	Method	TBLASTX:Wheat
Start	717	End	1100
GI	none	Score	75
Exons	717..827, 810..872, 876..1100, 1001..1099		

Seq. No.	53909	Seq. ID	OJ990525_06.0421.C52
Gene No.	113246	Strand	+
Start	1	End	1190
Name	OJ990525_06.0421.C52.o1.tm	Method	TBLASTX:Maize
Start	939	End	1190
GI	none	Score	309
Exons	939..1190, 986..1189		

Seq. No.	53910	Seq. ID	OJ990525_06.0421.C53
Gene No.	113247	Strand	-
Start	387	End	2046
Name	OJ990525_06.0421.C53.o1.np	Method	AAT/NAP
Start	202	End	2046
GI	6539581	Score	337
Exons	202..624, 1949..2046		
GI Descrip.	(AP000837) Similar to Arabidopsis thaliana DNA chromosome 4, BAC clone F20D10; hypothetical protein (AL035538) [Oryza sativa]		

Seq. No.	53910	Seq. ID	OJ990525_06.0421.C53
Gene No.	113247	Strand	-
Start	387	End	2046
Name	OJ990525_06.0421.C53.o1.gs	Method	GENSCAN
Start	387	End	1827
GI	none	Score	.83
Exons	387..615, 943..1033, 1695..1827		

Seq. No.	53911	Seq. ID	OJ990525_06.0421.C54
Gene No.	113248	Strand	-
Start	371	End	2900
Name	OJ990525_06.0421.C54.o1.gs	Method	GENSCAN
Start	371	End	2900
GI	none	Score	.53
Exons	371..503, 1768..1974, 2850..2900		

Seq. No.	53912	Seq. ID	OJ990525_06.0421.C55
Gene No.	113249	Strand	+
Start	594	End	3522
Name	OJ990525_06.0421.C55.o1.gs	Method	GENSCAN
Start	594	End	3477
GI	none	Score	.71
Exons	594..761, 1275..1478, 1634..1854, 1937..2149, 2204..2295, 2373..2560, 2635..2824, 3074..3477		

Seq. No.	53912	Seq. ID	OJ990525_06.0421.C55
Gene No.	113249	Strand	+
Start	594	End	3522
Name	OJ990525_06.0421.C55.o1.np	Method	AAT/NAP
Start	594	End	3522
GI	6691716	Score	2548
Exons	594..1482, 1680..1854, 1937..2045, 2122..2295, 2373..2560, 2635..2737, 2887..3000, 3074..3522		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6691717|dbj|BAA89397.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	53912	Seq. ID	OJ990525_06.0421.C55
Gene No.	113249	Strand	+
Start	594	End	3522
Name	OJ990525_06.0421.C55.o1.tw	Method	TBLASTX:Wheat
Start	713	End	1004
GI	none	Score	192
Exons	713..766, 714..1004, 860..967		

Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113250	Strand	+

Start	5615	End	7362
Name	OJ990525_06.0421.C56.o2.gp	Method	AAT/GAP
Start	5437	End	5818
GI	uC-osflcyp033a04b1	Score	691
Exons	5437..5818		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113250	Strand	+
Start	5615	End	7362
Name	OJ990525_06.0421.C56.o3.gs	Method	GENSCAN
Start	5615	End	7362
GI	none	Score	.91
Exons	5615..5686, 6706..7362		

Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113251	Strand	-
Start	1	End	7619
Name	OJ990525_06.0421.C56.o2.np	Method	AAT/NAP
Start	1	End	7619
GI	5852180	Score	593
Exons	1..64, 4104..4515, 4567..4684, 5667..5720, 7562..7619		
GI Descrip.	(AL117265) zhb00010.1 [Oryza sativa]		

Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113251	Strand	-
Start	1	End	7619
Name	OJ990525_06.0421.C56.o1.gs	Method	GENSCAN
Start	412	End	3288
GI	none	Score	.46
Exons	412..494, 624..806, 824..1928, 1930..2529, 2552..2588, 2720..3288		

Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113251	Strand	-
Start	1	End	7619
Name	OJ990525_06.0421.C56.o1.np	Method	AAT/NAP
Start	415	End	4421
GI	5902445	Score	4662
Exons	415..3369, 4280..4421		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113251	Strand	-
Start	1	End	7619
Name	OJ990525_06.0421.C56.o3.tw	Method	TBLASTX:Wheat
Start	424	End	1037
GI	none	Score	47
Exons	424..561, 547..843, 776..820, 837..1037, 931..1017		

Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113251	Strand	-
Start	1	End	7619
Name	OJ990525_06.0421.C56.o4.tm	Method	TBLASTX:Maize
Start	463	End	717
GI	none	Score	60

Exons	463..564, 503..565, 544..717, 545..604		
Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113251	Strand	-
Start	1	End	7619
Name	OJ990525_06.0421.C56.o2.tw	Method	TBLASTX:Wheat
Start	1152	End	1539
GI	none	Score	106
Exons	1152..1337, 1152..1538, 1228..1539		
Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113251	Strand	-
Start	1	End	7619
Name	OJ990525_06.0421.C56.o1.tm	Method	TBLASTX:Maize
Start	1182	End	1546
GI	none	Score	264
Exons	1182..1229, 1215..1544, 1216..1545, 1253..1546		
Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113251	Strand	-
Start	1	End	7619
Name	OJ990525_06.0421.C56.o5.tw	Method	TBLASTX:Wheat
Start	1857	End	2280
GI	none	Score	66
Exons	1857..1958, 1939..2142, 1948..2280, 1961..2275		
Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113251	Strand	-
Start	1	End	7619
Name	OJ990525_06.0421.C56.o4.tw	Method	TBLASTX:Wheat
Start	2317	End	2746
GI	none	Score	42
Exons	2317..2745, 2318..2452, 2537..2746		
Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113251	Strand	-
Start	1	End	7619
Name	OJ990525_06.0421.C56.o2.tm	Method	TBLASTX:Maize
Start	2404	End	2848
GI	none	Score	42
Exons	2404..2430, 2428..2604, 2440..2529, 2593..2847, 2594..2848		
Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113251	Strand	-
Start	1	End	7619
Name	OJ990525_06.0421.C56.o1.ts	Method	TBLASTX:Soybean
Start	2515	End	2946
GI	none	Score	90
Exons	2515..2946, 2602..2877, 2756..2899		
Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113251	Strand	-
Start	1	End	7619
Name	OJ990525_06.0421.C56.o1.tw	Method	TBLASTX:Wheat
Start	2791	End	3207
GI	none	Score	187
Exons	2791..3159, 2792..3157, 2995..3159, 3157..3207		

Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113251	Strand	-
Start	1	End	7619
Name	OJ990525_06.0421.C56.o5.tm	Method	TBLASTX:Maize
Start	2848	End	3075
GI	none	Score	194
Exons	2848..3075		

Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113251	Strand	-
Start	1	End	7619
Name	OJ990525_06.0421.C56.o3.tm	Method	TBLASTX:Maize
Start	3079	End	3387
GI	none	Score	47
Exons	3079..3159, 3157..3297, 3232..3303, 3295..3387, 3297..3365		

Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113251	Strand	-
Start	1	End	7619
Name	OJ990525_06.0421.C56.o6.tw	Method	TBLASTX:Wheat
Start	3208	End	3365
GI	none	Score	79
Exons	3208..3297, 3209..3295, 3297..3365		

Seq. No.	53913	Seq. ID	OJ990525_06.0421.C56
Gene No.	113251	Strand	-
Start	1	End	7619
Name	OJ990525_06.0421.C56.o2.gs	Method	GENSCAN
Start	3965	End	4522
GI	none	Score	1
Exons	3965..4522		

Seq. No.	53914	Seq. ID	OJ990525_06.0421.C57
Gene No.	113252	Strand	-
Start	888	End	5109
Name	OJ990525_06.0421.C57.o1.tw	Method	TBLASTX:Wheat
Start	573	End	1370
GI	none	Score	130
Exons	573..866, 577..738, 913..1149, 915..1145, 1194..1370		

Seq. No.	53914	Seq. ID	OJ990525_06.0421.C57
Gene No.	113252	Strand	-
Start	888	End	5109
Name	OJ990525_06.0421.C57.o1.np	Method	AAT/NAP
Start	705	End	3647
GI	5902444	Score	4210
Exons	705..3647		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	53914	Seq. ID	OJ990525_06.0421.C57
Gene No.	113252	Strand	-
Start	888	End	5109
Name	OJ990525_06.0421.C57.o1.gs	Method	GENSCAN
Start	888	End	5109
GI	none	Score	.44
Exons	888..1348, 1484..2848, 2951..3279, 3394..3695, 4294..4400,		

5017..5109

Seq. No.	53914	Seq. ID	OJ990525_06.0421.C57
Gene No.	113252	Strand	-
Start	888	End	5109
Name	OJ990525_06.0421.C57.o2.tw	Method	TBLASTX:Wheat
Start	1950	End	2352
GI	none	Score	97
Exons	1950..2351, 2083..2352		

Seq. No.	53915	Seq. ID	OJ990525_06.0421.C58
Gene No.	113253	Strand	+
Start	4853	End	5592
Name	OJ990525_06.0421.C58.o2.np	Method	AAT/NAP
Start	4853	End	5592
GI	7106512	Score	102
Exons	4853..4912, 4984..5098, 5555..5592		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53915	Seq. ID	OJ990525_06.0421.C58
Gene No.	113254	Strand	-
Start	637	End	2991
Name	OJ990525_06.0421.C58.o1.np	Method	AAT/NAP
Start	637	End	2991
GI	100210	Score	89
Exons	637..769, 876..1163, 2970..2991		
GI Descrip.	extensin precursor (clone Tom L-4) - tomato gi|170444 (M76671) extensin (class II) [Lycopersicon esculentum]		

Seq. No.	53916	Seq. ID	OJ990525_06.0421.C62
Gene No.	113255	Strand	+
Start	71	End	1968
Name	OJ990525_06.0421.C62.o1.np	Method	AAT/NAP
Start	71	End	1968
GI	4680179	Score	1300
Exons	71..1155, 1189..1822, 1872..1968		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	53916	Seq. ID	OJ990525_06.0421.C62
Gene No.	113255	Strand	+
Start	71	End	1968
Name	OJ990525_06.0421.C62.o1.gs	Method	GENSCAN
Start	235	End	1871
GI	none	Score	.43
Exons	235..1871		

Seq. No.	53916	Seq. ID	OJ990525_06.0421.C62
Gene No.	113255	Strand	+
Start	71	End	1968
Name	OJ990525_06.0421.C62.o3.tw	Method	TBLASTX:Wheat
Start	253	End	512
GI	none	Score	204
Exons	253..300, 313..510, 315..512		

Seq. No.	53916	Seq. ID	OJ990525_06.0421.C62
Gene No.	113255	Strand	+

Start	71	End	1968
Name	OJ990525_06.0421.C62.o1.tw	Method	TBLASTX:Wheat
Start	533	End	897
GI	none	Score	53
Exons	533..715, 546..740, 547..897		

Seq. No.	53916	Seq. ID	OJ990525_06.0421.C62
Gene No.	113255	Strand	+
Start	71	End	1968
Name	OJ990525_06.0421.C62.o1.tm	Method	TBLASTX:Maize
Start	547	End	852
GI	none	Score	233
Exons	547..852, 561..677		

Seq. No.	53916	Seq. ID	OJ990525_06.0421.C62
Gene No.	113255	Strand	+
Start	71	End	1968
Name	OJ990525_06.0421.C62.o3.tm	Method	TBLASTX:Maize
Start	1180	End	1533
GI	none	Score	183
Exons	1180..1533		

Seq. No.	53916	Seq. ID	OJ990525_06.0421.C62
Gene No.	113255	Strand	+
Start	71	End	1968
Name	OJ990525_06.0421.C62.o2.tw	Method	TBLASTX:Wheat
Start	1216	End	1653
GI	none	Score	159
Exons	1216..1425, 1272..1424, 1470..1583, 1471..1584, 1612..1653		

Seq. No.	53916	Seq. ID	OJ990525_06.0421.C62
Gene No.	113255	Strand	+
Start	71	End	1968
Name	OJ990525_06.0421.C62.o2.tm	Method	TBLASTX:Maize
Start	1654	End	1821
GI	none	Score	183
Exons	1654..1821, 1671..1820		

Seq. No.	53917	Seq. ID	OJ990525_06.0421.C65
Gene No.	113256	Strand	+
Start	1	End	1099
Name	OJ990525_06.0421.C65.o1.np	Method	AAT/NAP
Start	1	End	1099
GI	5257279	Score	352
Exons	1..439, 1076..1099		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	53917	Seq. ID	OJ990525_06.0421.C65
Gene No.	113256	Strand	+
Start	1	End	1099
Name	OJ990525_06.0421.C65.o1.gs	Method	GENSCAN
Start	165	End	1076
GI	none	Score	.49
Exons	165..167, 204..439, 929..1076		

Seq. No.	53917	Seq. ID	OJ990525_06.0421.C65

Gene No.	113256	Strand	+
Start	1	End	1099
Name	OJ990525_06.0421.C65.o2.np	Method	AAT/NAP
Start	845	End	1099
GI	6983860	Score	84
Exons	845..1099		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	53918	Seq. ID	OJ990525_06.0421.C68
Gene No.	113257	Strand	+
Start	1	End	838
Name	OJ990525_06.0421.C68.o1.np	Method	AAT/NAP
Start	1	End	835
GI	5902445	Score	1133
Exons	1..835		
GI Descrip.	(AB030283) GAG-POL precursor [Oryza sativa]		

Seq. No.	53918	Seq. ID	OJ990525_06.0421.C68
Gene No.	113257	Strand	+
Start	1	End	838
Name	OJ990525_06.0421.C68.o1.gs	Method	GENSCAN
Start	111	End	838
GI	none	Score	.4
Exons	111..838		

Seq. No.	53918	Seq. ID	OJ990525_06.0421.C68
Gene No.	113257	Strand	+
Start	1	End	838
Name	OJ990525_06.0421.C68.o1.tw	Method	TBLASTX:Wheat
Start	212	End	826
GI	none	Score	273
Exons	212..490, 232..321, 373..474, 545..703, 689..826		

Seq. No.	53918	Seq. ID	OJ990525_06.0421.C68
Gene No.	113257	Strand	+
Start	1	End	838
Name	OJ990525_06.0421.C68.o1.tm	Method	TBLASTX:Maize
Start	554	End	787
GI	none	Score	149
Exons	554..706, 646..705, 685..786, 686..787		

Seq. No.	53919	Seq. ID	OJ990525_06.0421.C69
Gene No.	113258	Strand	-
Start	19	End	1678
Name	OJ990525_06.0421.C69.o1.gs	Method	GENSCAN
Start	19	End	1566
GI	none	Score	.64
Exons	19..147, 220..324, 397..510, 650..850, 925..1353, 1387..1566		

Seq. No.	53919	Seq. ID	OJ990525_06.0421.C69
Gene No.	113258	Strand	-
Start	19	End	1678
Name	OJ990525_06.0421.C69.o1.np	Method	AAT/NAP
Start	896	End	1678
GI	5902447	Score	1023
Exons	896..1202, 1239..1678		

GI Descrip. (AB030283) orf4 [Oryza sativa]

Seq. No.	53920	Seq. ID	OJ990525_06.0421.C71
Gene No.	113259	Strand	+
Start	300	End	448
Name	OJ990525_06.0421.C71.o1.gp	Method	AAT/GAP
Start	300	End	448
GI	uC-osflcyp177g01a1	Score	244
Exons	300..448		
GI Descrip.	'4884864/gb|AAD31846.1|AF133530_1 4.0e-12 (AF133530) water channel protein MipH [Mesembryanthemum crystallinum]'		

Seq. No.	53921	Seq. ID	OJ990525_06.0421.C72
Gene No.	113260	Strand	+
Start	356	End	2290
Name	OJ990525_06.0421.C72.o1.gs	Method	GENSCAN
Start	356	End	2290
GI	none	Score	.41
Exons	356..451, 952..1009, 2115..2290		

Seq. No.	53921	Seq. ID	OJ990525_06.0421.C72
Gene No.	113261	Strand	+
Start	3375	End	3457
Name	OJ990525_06.0421.C72.o1.gp	Method	AAT/GAP
Start	3375	End	3457
GI	38012_1.R1084	Score	104
Exons	3375..3457		
GI Descrip.	'4097947/gb|U72255|OSU72255 2.0e-23 Oryza sativa beta-1,3-glucanase precursor (Gns9) gene, complete cds'		

Seq. No.	53921	Seq. ID	OJ990525_06.0421.C72
Gene No.	113262	Strand	+
Start	7669	End	10326
Name	OJ990525_06.0421.C72.o3.gs	Method	GENSCAN
Start	7669	End	10326
GI	none	Score	.81
Exons	7669..7689, 7760..7897, 8618..9220, 10189..10326		

Seq. No.	53921	Seq. ID	OJ990525_06.0421.C72
Gene No.	113263	Strand	-
Start	2525	End	5958
Name	OJ990525_06.0421.C72.o2.gs	Method	GENSCAN
Start	2525	End	5958
GI	none	Score	.77
Exons	2525..2611, 2850..2942, 4331..4879, 5326..5583, 5953..5958		

Seq. No.	53921	Seq. ID	OJ990525_06.0421.C72
Gene No.	113264	Strand	-
Start	8489	End	10449
Name	OJ990525_06.0421.C72.o2.gp	Method	AAT/GAP
Start	8489	End	10449
GI	1103_1.R1084	Score	1936
Exons	8489..9229, 10203..10449		
GI Descrip.	'131225/sp|P23993|PSAL_HORVU 7.0e-95 PHOTOSYSTEM I REACTION CENTRE SUBUNIT XI PRECURSOR (SUBUNIT V) (PSI-L) >gi_100605_pir__A39759 photosystem I 18K protein precursor - barley >gi_167087 (M61146) photosystem I hydrophobic protein		

[Hordeum vulgare]'

Seq. No.	53921	Seq. ID	OJ990525_06.0421.C72
Gene No.	113264	Strand	-
Start	8489	End	10449
Name	OJ990525_06.0421.C72.o1.np	Method	AAT/NAP
Start	8741	End	10337
GI	131225	Score	955
Exons	8741..9229, 10203..10337		
GI Descrip.	PHOTOSYSTEM I REACTION CENTRE SUBUNIT XI PRECURSOR (SUBUNIT V) (PSI-L) gi|100605|pir||A39759 photosystem I 18K protein precursor - barley gi|167087 (M61146) photosystem I hydrophobic protein [Hordeum vulgare]		

Seq. No.	53921	Seq. ID	OJ990525_06.0421.C72
Gene No.	113265	Strand	-
Start	11638	End	13386
Name	OJ990525_06.0421.C72.o1.tm	Method	TBLASTX:Maize
Start	8724	End	10329
GI	none	Score	683
Exons	8724..9227, 8738..9226, 9047..9232, 9127..9228, 10242..10328, 10246..10329		

Seq. No.	53921	Seq. ID	OJ990525_06.0421.C72
Gene No.	113265	Strand	-
Start	11638	End	13386
Name	OJ990525_06.0421.C72.o1.ts	Method	TBLASTX:Soybean
Start	8726	End	9232
GI	none	Score	484
Exons	8726..9232, 8727..9230, 9053..9232		

Seq. No.	53921	Seq. ID	OJ990525_06.0421.C72
Gene No.	113265	Strand	-
Start	11638	End	13386
Name	OJ990525_06.0421.C72.o1.tc	Method	TBLASTX:Cress
Start	8735	End	9227
GI	none	Score	488
Exons	8735..9226, 8736..9227		

Seq. No.	53921	Seq. ID	OJ990525_06.0421.C72
Gene No.	113265	Strand	-
Start	11638	End	13386
Name	OJ990525_06.0421.C72.o2.np	Method	AAT/NAP
Start	11605	End	13386
GI	6728982	Score	265
Exons	11605..11865, 11953..11996, 12106..12163, 13315..13386		
GI Descrip.	(AC018363) unknown protein [Arabidopsis thaliana]		

Seq. No.	53921	Seq. ID	OJ990525_06.0421.C72
Gene No.	113265	Strand	-
Start	11638	End	13386
Name	OJ990525_06.0421.C72.o4.gs	Method	GENSCAN
Start	11638	End	12371
GI	none	Score	.69
Exons	11638..11865, 12348..12371		

Seq. No.	53921	Seq. ID	OJ990525_06.0421.C72

Gene No.	113265	Strand	-
Start	11638	End	13386
Name	OJ990525_06.0421.C72.o2.tm	Method	TBLASTX:Maize
Start	11713	End	12006
GI	none	Score	79
Exons	11713..11907, 11719..11907, 11729..11914, 11953..12006		

Seq. No.	53921	Seq. ID	OJ990525_06.0421.C72
Gene No.	113265	Strand	-
Start	11638	End	13386
Name	OJ990525_06.0421.C72.o1.tw	Method	TBLASTX:Wheat
Start	11719	End	12006
GI	none	Score	169
Exons	11719..11892, 11729..11866, 11953..12006, 11957..12004		

Seq. No.	53921	Seq. ID	OJ990525_06.0421.C72
Gene No.	113265	Strand	-
Start	11638	End	13386
Name	OJ990525_06.0421.C72.o2.ts	Method	TBLASTX:Soybean
Start	11719	End	12006
GI	none	Score	147
Exons	11719..11892, 11732..11956, 11953..12006		

Seq. No.	53922	Seq. ID	OJ990525_06.0421.C73
Gene No.	113266	Strand	+
Start	39	End	635
Name	OJ990525_06.0421.C73.o1.gs	Method	GENSCAN
Start	39	End	635
GI	none	Score	.86
Exons	39..635		

Seq. No.	53922	Seq. ID	OJ990525_06.0421.C73
Gene No.	113267	Strand	-
Start	120	End	259
Name	OJ990525_06.0421.C73.o1.np	Method	AAT/NAP
Start	120	End	259
GI	6728982	Score	106
Exons	120..259		
GI Descrip.	(AC018363) unknown protein [Arabidopsis thaliana]		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113268	Strand	+
Start	370	End	2528
Name	OJ990525_06.0421.C74.o1.gs	Method	GENSCAN
Start	370	End	2528
GI	none	Score	.78
Exons	370..459, 1607..1657, 1919..2003, 2392..2528		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113269	Strand	+
Start	10316	End	14077
Name	OJ990525_06.0421.C74.o3.gs	Method	GENSCAN
Start	10316	End	13851
GI	none	Score	.56
Exons	10316..10355, 12485..12649, 12871..12992, 13071..13142, 13287..13358, 13438..13581, 13783..13851		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113269	Strand	+
Start	10316	End	14077
Name	OJ990525_06.0421.C74.o5.gp	Method	AAT/GAP
Start	12505	End	12983
GI	none	Score	510
Exons	12505..12649, 12732..12803, 12900..12983		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113269	Strand	+
Start	10316	End	14077
Name	OJ990525_06.0421.C74.o3.np	Method	AAT/NAP
Start	12548	End	14077
GI	129960	Score	136
Exons	12548..12649, 12737..12804, 12900..12992, 13071..13151, 13285..13384, 14003..14077		
GI Descrip.	4-NITROPHENYLPHOSPHATASE (PNPPASE) gi|5924022|emb|CAB56540.1| (X51611) p-nitrophenylphosphatase [Saccharomyces cerevisiae]		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113269	Strand	+
Start	10316	End	14077
Name	OJ990525_06.0421.C74.o6.gp	Method	AAT/GAP
Start	12745	End	13499
GI	5532_1.R1084	Score	541
Exons	12745..12803, 12900..12992, 13071..13142, 13287..13358, 13438..13499		
GI Descrip.	'2131161/pir||S67800 4.0e-49 4-nitrophenylphosphatase (EC 3.1.3.41) - yeast (Saccharomyces cerevisiae) >gi_1431400_emb_CAA98816_ (Z74284) ORF YDL236w [Saccharomyces cerevisiae]'		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113270	Strand	-
Start	3116	End	9494
Name	OJ990525_06.0421.C74.o1.gp	Method	AAT/GAP
Start	2856	End	5400
GI	1450_1.R1084	Score	2589
Exons	2856..3292, 3399..3488, 3588..3703, 3796..4017, 4107..4167, 4267..4321, 4528..4618, 4864..4950, 5047..5187, 5284..5400		
GI Descrip.	'4337177/gb|AAD18098| 1.0e-163 (AC006416) Identical to gb_Y10557 g5bf gene from Arabidopsis thaliana. ESTs gb_R30578, gb_R90475, gb_T22384, gb_T22425, gb_N64934 and gb_T46767 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113270	Strand	-
Start	3116	End	9494
Name	OJ990525_06.0421.C74.o2.tm	Method	TBLASTX:Maize
Start	3093	End	5381
GI	none	Score	236
Exons	3093..3299, 3104..3295, 3391..3489, 3399..3491, 3400..3489, 3452..3490, 3570..3638, 3575..3673, 3580..3639, 3588..3674, 3627..3704, 3638..3709, 3794..4012, 3795..3836, 3796..4020, 3796..4041, 3800..4039, 4104..4169, 4105..4167, 4106..4168, 4106..4186, 4264..4326, 4266..4334, 4526..4618, 4527..4619, 4530..4619, 4534..4635, 4534..4620, 4853..4951, 4861..4950,		

4903..4953, 5044..5163, 5045..5161, 5288..5374, 5292..5381

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113270	Strand	-
Start	3116	End	9494
Name	OJ990525_06.0421.C74.o1.ts	Method	TBLASTX:Soybean
Start	3108	End	5139
GI	none	Score	199
Exons	3108..3299, 3114..3293, 3116..3295, 3391..3489, 3399..3491, 3400..3489, 3570..3638, 3580..3639, 3627..3704, 3633..3704, 3638..3709, 3794..3997, 3796..4041, 3800..4018, 4107..4169, 4117..4164, 4266..4334, 4526..4618, 4527..4613, 4861..4950, 4868..4951, 5024..5125, 5044..5139		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113270	Strand	-
Start	3116	End	9494
Name	OJ990525_06.0421.C74.o2.gs	Method	GENSCAN
Start	3116	End	9457
GI	none	Score	.67
Exons	3116..3292, 3399..3488, 3588..3703, 3834..4017, 4107..4167, 4267..4321, 4528..4618, 4864..4950, 5047..5187, 5284..5430, 6644..6912, 7027..7129, 7208..7239, 7337..7548, 7858..8094, 8403..8490, 8586..8657, 8746..8821, 8930..8988, 9256..9457		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113270	Strand	-
Start	3116	End	9494
Name	OJ990525_06.0421.C74.o1.np	Method	AAT/NAP
Start	3119	End	5373
GI	3850621	Score	1244
Exons	3119..3292, 3399..3488, 3588..3703, 3796..4017, 4107..4167, 4267..4321, 4528..4618, 4864..4950, 5047..5187, 5284..5373		
GI Descrip.	(Y15382) putative RNA binding protein [Arabidopsis thaliana]		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113270	Strand	-
Start	3116	End	9494
Name	OJ990525_06.0421.C74.o1.tc	Method	TBLASTX:Cress
Start	3125	End	5139
GI	none	Score	225
Exons	3125..3295, 3126..3293, 3132..3296, 3399..3491, 3403..3489, 3570..3638, 3580..3639, 3638..3709, 3639..3704, 3796..4008, 3796..4041, 3800..4039, 4105..4167, 4107..4169, 4264..4326, 4266..4334, 4524..4610, 4526..4618, 4529..4642, 4861..4950, 4868..4954, 5021..5122, 5036..5137, 5044..5139, 5047..5124		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113270	Strand	-
Start	3116	End	9494
Name	OJ990525_06.0421.C74.o1.tw	Method	TBLASTX:Wheat
Start	4584	End	5185
GI	none	Score	58
Exons	4584..4631, 4853..4951, 4861..4959, 4861..4950, 5044..5151, 5044..5184, 5045..5185		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74

Gene No.	113270	Strand	-
Start	3116	End	9494
Name	OJ990525_06.0421.C74.o2.gp	Method	AAT/GAP
Start	6418	End	7053
GI	37107_1.R1084	Score	952
Exons	6418..6912, 7027..7053		
GI Descrip.	'1362162/pir||A57512 2.0e-28 beta-glucosidase BGQ60 precursor - barley >gi_804656 (L41869) beta-glucosidase [Hordeum vulgare]'		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113270	Strand	-
Start	3116	End	9494
Name	OJ990525_06.0421.C74.o1.tm	Method	TBLASTX:Maize
Start	6635	End	8093
GI	none	Score	173
Exons	6635..6913, 6639..6914, 6644..6913, 7023..7160, 7025..7132, 7029..7151, 7208..7243, 7336..7563, 7336..7548, 7338..7559, 7636..7755, 7638..7766, 7638..7760, 7842..8090, 7845..8093		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113270	Strand	-
Start	3116	End	9494
Name	OJ990525_06.0421.C74.o2.np	Method	AAT/NAP
Start	6635	End	9494
GI	1362162	Score	1287
Exons	6635..6912, 7027..7129, 7208..7239, 7337..7548, 7639..7750, 7847..8094, 8403..8490, 8586..8657, 8746..8821, 8930..8988, 9256..9494		
GI Descrip.	beta-glucosidase BGQ60 precursor - barley gi|804656 (L41869) beta-glucosidase [Hordeum vulgare]		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113270	Strand	-
Start	3116	End	9494
Name	OJ990525_06.0421.C74.o2.tw	Method	TBLASTX:Wheat
Start	6647	End	7093
GI	none	Score	205
Exons	6647..6913, 6657..6914, 6657..6914, 7023..7070, 7025..7093		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113270	Strand	-
Start	3116	End	9494
Name	OJ990525_06.0421.C74.o2.tc	Method	TBLASTX:Cress
Start	6650	End	7754
GI	none	Score	160
Exons	6650..6913, 6663..6824, 6849..6905, 7023..7124, 7025..7132, 7395..7547, 7402..7539, 7638..7754		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113270	Strand	-
Start	3116	End	9494
Name	OJ990525_06.0421.C74.o2.ts	Method	TBLASTX:Soybean
Start	6653	End	9382
GI	none	Score	161
Exons	6653..6913, 6663..6827, 6855..6914, 7023..7160, 7025..7132, 7199..7234, 7398..7547, 7408..7518, 7636..7749, 7638..7760, 7708..7746, 7842..7940, 7849..7941, 7852..7941, 7956..8093,		

7959..8090, 7960..8094, 8014..8091, 8397..8489, 8402..8488,
8593..8655, 8717..8824, 8912..8989, 9221..9382, 9255..9374

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113270	Strand	-
Start	3116	End	9494
Name	OJ990525_06.0421.C74.o3.gp	Method	AAT/GAP
Start	7204	End	7942
GI	uC-osflcyp157d12b1	Score	805
Exons	7204..7239, 7337..7548, 7639..7750, 7847..7942		
GI Descrip.	'1362162/pir||A57512 3.0e-38 beta-glucosidase BGQ60 precursor - barley >gi_804656 (L41869) beta-glucosidase [Hordeum vulgare]'		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113270	Strand	-
Start	3116	End	9494
Name	OJ990525_06.0421.C74.o4.tc	Method	TBLASTX:Cress
Start	7914	End	9383
GI	none	Score	37
Exons	7914..7940, 7915..7941, 7956..8093, 8014..8091, 8402..8488, 8593..8655, 8717..8824, 8912..8989, 9246..9383, 9248..9382		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113270	Strand	-
Start	3116	End	9494
Name	OJ990525_06.0421.C74.o4.gp	Method	AAT/GAP
Start	8066	End	9471
GI	43425_1.R1084	Score	946
Exons	8066..8094, 8403..8490, 8586..8657, 8746..8821, 8930..8988, 9256..9471		
GI Descrip.	'1362162/pir||A57512 3.0e-51 beta-glucosidase BGQ60 precursor - barley >gi_804656 (L41869) beta-glucosidase [Hordeum vulgare]'		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113270	Strand	-
Start	3116	End	9494
Name	OJ990525_06.0421.C74.o3.tm	Method	TBLASTX:Maize
Start	8393	End	9382
GI	none	Score	84
Exons	8393..8488, 8394..8483, 8394..8492, 8569..8673, 8593..8655, 8595..8657, 8747..8824, 8748..8822, 8750..8824, 8912..8989, 8937..8990, 9233..9382, 9255..9380		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113271	Strand	
Start	12529	End	13557
Name	OJ990525_06.0421.C74.o3.tc	Method	TBLASTX:Cress
Start	12529	End	13133
GI	none	Score	88
Exons	12529..12651, 12736..12795, 12897..12992, 12899..12994, 13086..13133		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113271	Strand	
Start	12529	End	13557
Name	OJ990525_06.0421.C74.o3.ts	Method	TBLASTX:Soybean
Start	12592	End	13557

GI	none	Score	83
Exons	12592..12651, 12736..12795, 12897..12992, 12899..12994, 13064..13150, 13068..13151, 13284..13358, 13285..13368, 13286..13363, 13440..13499, 13441..13557, 13441..13503		

Seq. No.	53923	Seq. ID	OJ990525_06.0421.C74
Gene No.	113271	Strand	
Start	12529	End	13557
Name	OJ990525_06.0421.C74.o4.tm	Method	TBLASTX:Maize
Start	12601	End	13548
GI	none	Score	68
Exons	12601..12651, 12736..12795, 12899..12994, 12900..12992, 13055..13150, 13068..13193, 13284..13370, 13441..13548		

Seq. No.	53924	Seq. ID	OJ990525_06.0421.C76
Gene No.	113272	Strand	+
Start	1	End	547
Name	OJ990525_06.0421.C76.o1.np	Method	AAT/NAP
Start	1	End	547
GI	7340881	Score	446
Exons	1..181, 237..547		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	53924	Seq. ID	OJ990525_06.0421.C76
Gene No.	113272	Strand	+
Start	1	End	547
Name	OJ990525_06.0421.C76.o1.gs	Method	GENSCAN
Start	90	End	472
GI	none	Score	.54
Exons	90..181, 226..472		

Seq. No.	53924	Seq. ID	OJ990525_06.0421.C76
Gene No.	113273	Strand	-
Start	708	End	806
Name	OJ990525_06.0421.C76.o2.gs	Method	GENSCAN
Start	708	End	806
GI	none	Score	.57
Exons	708..806		

Seq. No.	53925	Seq. ID	OJ990505_03.0420.C2
Gene No.	113274	Strand	+
Start	664	End	717
Name	OJ990505_03.0420.C2.o1.gs	Method	GENSCAN
Start	664	End	717
GI	none	Score	.57
Exons	664..717		

Seq. No.	53926	Seq. ID	OJ990505_03.0420.C19
Gene No.	113275	Strand	-
Start	300	End	554
Name	OJ990505_03.0420.C19.o1.gs	Method	GENSCAN
Start	300	End	554
GI	none	Score	.71
Exons	300..554		

Seq. No.	53927	Seq. ID	OJ990505_03.0420.C21
Gene No.	113276	Strand	-

Start	537	End	702
Name	OJ990505_03.0420.C21.o1.gs	Method	GENSCAN
Start	537	End	702
GI	none	Score	.97
Exons	537..702		

Seq. No.	53928	Seq. ID	OJ990505_03.0420.C22
Gene No.	113277	Strand	-
Start	572	End	625
Name	OJ990505_03.0420.C22.o1.gs	Method	GENSCAN
Start	572	End	625
GI	none	Score	.68
Exons	572..625		

Seq. No.	53929	Seq. ID	OJ990505_03.0420.C29
Gene No.	113278	Strand	+
Start	1	End	833
Name	OJ990505_03.0420.C29.o1.np	Method	AAT/NAP
Start	1	End	833
GI	6983859	Score	1039
Exons	1..833		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	53929	Seq. ID	OJ990505_03.0420.C29
Gene No.	113278	Strand	+
Start	1	End	833
Name	OJ990505_03.0420.C29.o1.tw	Method	TBLASTX:Wheat
Start	3	End	488
GI	none	Score	545
Exons	3..488, 6..323, 29..487		

Seq. No.	53929	Seq. ID	OJ990505_03.0420.C29
Gene No.	113278	Strand	+
Start	1	End	833
Name	OJ990505_03.0420.C29.o1.tm	Method	TBLASTX:Maize
Start	45	End	634
GI	none	Score	222
Exons	45..203, 47..199, 73..207, 141..344, 196..330, 200..628, 201..629, 311..634		

Seq. No.	53929	Seq. ID	OJ990505_03.0420.C29
Gene No.	113278	Strand	+
Start	1	End	833
Name	OJ990505_03.0420.C29.o2.tw	Method	TBLASTX:Wheat
Start	488	End	821
GI	none	Score	354
Exons	488..712, 489..821		

Seq. No.	53929	Seq. ID	OJ990505_03.0420.C29
Gene No.	113278	Strand	+
Start	1	End	833
Name	OJ990505_03.0420.C29.o2.tm	Method	TBLASTX:Maize
Start	665	End	806
GI	none	Score	176
Exons	665..757, 666..806, 681..803		

Seq. No.	53930	Seq. ID	OJ990505_03.0420.C32
Gene No.	113279	Strand	+
Start	658	End	850
Name	OJ990505_03.0420.C32.o1.gp	Method	AAT/GAP
Start	658	End	850
GI	4715162	Score	348
Exons	658..850		
GI Descrip.	4868375/gb|AAD31285.1|AF139807_1 1.0e-29 (AF139807) nod factor binding lectin-nucleotide phosphohydrolase [Dolichos biflorus]		

Seq. No.	53930	Seq. ID	OJ990505_03.0420.C32
Gene No.	113279	Strand	+
Start	658	End	850
Name	OJ990505_03.0420.C32.o1.gs	Method	GENSCAN
Start	675	End	845
GI	none	Score	.41
Exons	675..845		

Seq. No.	53931	Seq. ID	OJ990505_03.0420.C35
Gene No.	113280	Strand	+
Start	1	End	1721
Name	OJ990505_03.0420.C35.o1.np	Method	AAT/NAP
Start	1	End	1574
GI	6910584	Score	602
Exons	1..158, 325..411, 569..625, 726..964, 1050..1168, 1499..1574		
GI Descrip.	(AC006424) CDS [Arabidopsis thaliana]		

Seq. No.	53931	Seq. ID	OJ990505_03.0420.C35
Gene No.	113280	Strand	+
Start	1	End	1721
Name	OJ990505_03.0420.C35.o1.gs	Method	GENSCAN
Start	7	End	1579
GI	none	Score	.77
Exons	7..158, 325..411, 855..964, 1050..1168, 1252..1338, 1499..1579		

Seq. No.	53931	Seq. ID	OJ990505_03.0420.C35
Gene No.	113280	Strand	+
Start	1	End	1721
Name	OJ990505_03.0420.C35.o1.ts	Method	TBLASTX:Soybean
Start	567	End	1341
GI	none	Score	81
Exons	567..596, 570..620, 711..965, 727..801, 816..881, 859..969, 1048..1149, 1049..1168, 1246..1341, 1249..1338, 1251..1340		

Seq. No.	53931	Seq. ID	OJ990505_03.0420.C35
Gene No.	113280	Strand	+
Start	1	End	1721
Name	OJ990505_03.0420.C35.o1.tm	Method	TBLASTX:Maize
Start	570	End	1341
GI	none	Score	53
Exons	570..620, 727..792, 859..969, 1048..1143, 1049..1147, 1246..1341		

Seq. No.	53931	Seq. ID	OJ990505_03.0420.C35
Gene No.	113280	Strand	+
Start	1	End	1721
Name	OJ990505_03.0420.C35.o1.tc	Method	TBLASTX:Cress
Start	859	End	1344

GI	none	Score	145
Exons	859..969, 890..961, 1048..1167, 1049..1168, 1246..1344, 1252..1341		

Seq. No.	53931	Seq. ID	OJ990505_03.0420.C35
Gene No.	113280	Strand	+
Start	1	End	1721
Name	OJ990505_03.0420.C35.o1.gp	Method	AAT/GAP
Start	879	End	1721
GI	23020_1.R1084	Score	887
Exons	879..964, 1050..1168, 1252..1338, 1499..1721		
GI Descrip.	'3367522 2.0e-27 (AC004392) EST gb_T04691 comes from this gene. [Arabidopsis thaliana]'		

Seq. No.	53932	Seq. ID	OJ990505_03.0420.C36
Gene No.	113281	Strand	+
Start	1	End	567
Name	OJ990505_03.0420.C36.o1.np	Method	AAT/NAP
Start	1	End	567
GI	6815099	Score	80
Exons	1..89, 442..567		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	53932	Seq. ID	OJ990505_03.0420.C36
Gene No.	113282	Strand	-
Start	1	End	2514
Name	OJ990505_03.0420.C36.o2.np	Method	AAT/NAP
Start	1	End	2514
GI	4680184	Score	182
Exons	1..53, 1358..2095, 2163..2514		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	53932	Seq. ID	OJ990505_03.0420.C36
Gene No.	113282	Strand	-
Start	1	End	2514
Name	OJ990505_03.0420.C36.o1.gs	Method	GENSCAN
Start	709	End	2448
GI	none	Score	.77
Exons	709..890, 1326..1457, 1591..1913, 2315..2448		

Seq. No.	53932	Seq. ID	OJ990505_03.0420.C36
Gene No.	113282	Strand	-
Start	1	End	2514
Name	OJ990505_03.0420.C36.o3.np	Method	AAT/NAP
Start	937	End	2514
GI	6907086	Score	234
Exons	937..1261, 1436..1819, 2059..2514		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	53933	Seq. ID	OJ990505_03.0420.C37
Gene No.	113283	Strand	-
Start	224	End	4634
Name	OJ990505_03.0420.C37.o1.gs	Method	GENSCAN
Start	224	End	4634
GI	none	Score	.66
Exons	224..341, 481..635, 716..752, 934..1114, 1272..1404, 1682..1880, 3057..3240, 3936..3960, 4236..4412, 4501..4634		

Seq. No.	53933	Seq. ID	OJ990505_03.0420.C37
Gene No.	113283	Strand	-
Start	224	End	4634
Name	OJ990505_03.0420.C37.o1.np	Method	AAT/NAP
Start	307	End	3251
GI	4680186	Score	185
Exons	307..361, 994..1120, 1724..1877, 3218..3251		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	53934	Seq. ID	OJ990505_03.0420.C38
Gene No.	113284	Strand	+
Start	315	End	751
Name	OJ990505_03.0420.C38.o1.gs	Method	GENSCAN
Start	315	End	751
GI	none	Score	.69
Exons	315..408, 705..751		

Seq. No.	53934	Seq. ID	OJ990505_03.0420.C38
Gene No.	113285	Strand	-
Start	403	End	500
Name	OJ990505_03.0420.C38.o1.np	Method	AAT/NAP
Start	403	End	500
GI	5777617	Score	77
Exons	403..500		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	53935	Seq. ID	OJ990505_03.0420.C43
Gene No.	113286	Strand	+
Start	1721	End	4744
Name	OJ990505_03.0420.C43.o1.np	Method	AAT/NAP
Start	1721	End	4744
GI	1709358	Score	646
Exons	1721..1972, 2340..2468, 3451..3507, 3588..3886, 4212..4303, 4420..4744		
GI Descrip.	NUCLEOSIDE-TRIPHOSPHATASE (NUCLEOSIDE TRIPHOSPHATE PHOSPHOHYDROLASE) (NTPASE) gi|629638|pir||S48859 nucleoside triphosphatase - garden pea gi|2129890|pir||S65147 nucleoside triphosphatase precursor, chromatin-associated - garden pea gi|563612|emb|CAA83655| (Z32743) nucleoside triphosphatase [Pisum sativum] gi|4519173|dbj|BAA75506.1| (AB022319) apyrase [Pisum sativum]		

Seq. No.	53935	Seq. ID	OJ990505_03.0420.C43
Gene No.	113286	Strand	+
Start	1721	End	4744
Name	OJ990505_03.0420.C43.o1.gs	Method	GENSCAN
Start	1742	End	4633
GI	none	Score	.69
Exons	1742..1900, 1943..1972, 2340..2468, 3451..3507, 3588..3886, 4420..4633		

Seq. No.	53935	Seq. ID	OJ990505_03.0420.C43
Gene No.	113286	Strand	+
Start	1721	End	4744
Name	OJ990505_03.0420.C43.o1.ts	Method	TBLASTX:Soybean
Start	1861	End	4624

GI	none	Score	96
Exons	1861..1962, 1862..1975, 2349..2465, 3439..3513, 3588..3884, 3661..3786, 3722..3880, 4210..4305, 4401..4589, 4595..4624		
Seq. No.	53935	Seq. ID	OJ990505_03.0420.C43
Gene No.	113286	Strand	+
Start	1721	End	4744
Name	OJ990505_03.0420.C43.o1.tm	Method	TBLASTX:Maize
Start	2379	End	4648
GI	none	Score	82
Exons	2379..2465, 2384..2464, 3439..3519, 3450..3509, 3581..3685, 3582..3884, 3588..3884, 3601..3909, 4189..4257, 4209..4256, 4264..4305, 4266..4304, 4418..4585, 4419..4589, 4568..4627, 4595..4648		
Seq. No.	53936	Seq. ID	OJ990505_03.0420.C44
Gene No.	113287	Strand	+
Start	1	End	450
Name	OJ990505_03.0420.C44.o1.np	Method	AAT/NAP
Start	1	End	435
GI	6002631	Score	199
Exons	1..242, 326..435		
GI Descrip.	(AF093604) apyrase [Arabidopsis thaliana] gi|6721177|gb|AAF26805.1|AC016829_29 (AC016829) apyrase (Atapy1) [Arabidopsis thaliana]		
Seq. No.	53936	Seq. ID	OJ990505_03.0420.C44
Gene No.	113287	Strand	+
Start	1	End	450
Name	OJ990505_03.0420.C44.o1.tm	Method	TBLASTX:Maize
Start	43	End	438
GI	none	Score	81
Exons	43..150, 66..143, 151..243, 152..244, 191..250, 324..437, 325..438		
Seq. No.	53936	Seq. ID	OJ990505_03.0420.C44
Gene No.	113287	Strand	+
Start	1	End	450
Name	OJ990505_03.0420.C44.o1.gs	Method	GENSCAN
Start	326	End	450
GI	none	Score	.97
Exons	326..450		
Seq. No.	53937	Seq. ID	OJ990505_03.0420.C52
Gene No.	113288	Strand	+
Start	224	End	874
Name	OJ990505_03.0420.C52.o1.gs	Method	GENSCAN
Start	224	End	874
GI	none	Score	.42
Exons	224..270, 385..874		
Seq. No.	53938	Seq. ID	OJ990505_03.0420.C54
Gene No.	113289	Strand	-
Start	1	End	1282
Name	OJ990505_03.0420.C54.o1.np	Method	AAT/NAP
Start	1	End	1282
GI	7228457	Score	1957

Exons	1..558, 622..1282		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	53938	Seq. ID	OJ990505_03.0420.C54
Gene No.	113289	Strand	-
Start	1	End	1282
Name	OJ990505_03.0420.C54.o1.tm	Method	TBLASTX:Maize
Start	64	End	420
GI	none	Score	74
Exons	64..180, 64..420, 74..385		
Seq. No.	53938	Seq. ID	OJ990505_03.0420.C54
Gene No.	113289	Strand	-
Start	1	End	1282
Name	OJ990505_03.0420.C54.o1.tw	Method	TBLASTX:Wheat
Start	88	End	551
GI	none	Score	232
Exons	88..549, 94..549, 95..550, 111..551		
Seq. No.	53938	Seq. ID	OJ990505_03.0420.C54
Gene No.	113289	Strand	-
Start	1	End	1282
Name	OJ990505_03.0420.C54.o1.ts	Method	TBLASTX:Soybean
Start	145	End	510
GI	none	Score	117
Exons	145..279, 286..510		
Seq. No.	53938	Seq. ID	OJ990505_03.0420.C54
Gene No.	113289	Strand	-
Start	1	End	1282
Name	OJ990505_03.0420.C54.o1.gs	Method	GENSCAN
Start	185	End	495
GI	none	Score	.95
Exons	185..495		
Seq. No.	53938	Seq. ID	OJ990505_03.0420.C54
Gene No.	113289	Strand	-
Start	1	End	1282
Name	OJ990505_03.0420.C54.o2.gs	Method	GENSCAN
Start	559	End	1278
GI	none	Score	.98
Exons	559..1278		
Seq. No.	53938	Seq. ID	OJ990505_03.0420.C54
Gene No.	113289	Strand	-
Start	1	End	1282
Name	OJ990505_03.0420.C54.o2.tw	Method	TBLASTX:Wheat
Start	715	End	1201
GI	none	Score	168
Exons	715..1200, 746..1006, 1064..1201		
Seq. No.	53939	Seq. ID	OJ990505_03.0420.C55
Gene No.	113290	Strand	-
Start	14	End	1005
Name	OJ990505_03.0420.C55.o1.gs	Method	GENSCAN

Start	14	End	859
GI	none	Score	.72
Exons	14..184, 412..469, 597..690, 799..859		

Seq. No.	53939	Seq. ID	OJ990505_03.0420.C55
Gene No.	113290	Strand	-
Start	14	End	1005
Name	OJ990505_03.0420.C55.o1.np	Method	AAT/NAP
Start	131	End	1005
GI	5042454	Score	194
Exons	131..191, 603..768, 978..1005		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	53940	Seq. ID	OJ990505_03.0420.C56
Gene No.	113291	Strand	-
Start	1	End	960
Name	OJ990505_03.0420.C56.o1.np	Method	AAT/NAP
Start	1	End	960
GI	4868375	Score	83
Exons	1..59, 427..555, 926..960		
GI Descrip.	(AF139807) nod factor binding lectin-nucleotide phosphohydrolase [Dolichos biflorus]		

Seq. No.	53941	Seq. ID	OJ990505_03.0420.C57
Gene No.	113292	Strand	+
Start	776	End	1218
Name	OJ990505_03.0420.C57.o1.gs	Method	GENSCAN
Start	776	End	1218
GI	none	Score	.68
Exons	776..835, 1087..1218		

Seq. No.	53942	Seq. ID	OJ990505_03.0420.C58
Gene No.	113293	Strand	+
Start	239	End	1496
Name	OJ990505_03.0420.C58.o1.gs	Method	GENSCAN
Start	239	End	1496
GI	none	Score	.99
Exons	239..322, 1368..1496		

Seq. No.	53942	Seq. ID	OJ990505_03.0420.C58
Gene No.	113294	Strand	-
Start	1	End	142
Name	OJ990505_03.0420.C58.o1.gp	Method	AAT/GAP
Start	1	End	142
GI	LIB3434-038-P1-K1-F1	Score	232
Exons	1..142		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 0.0e+00 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o1.np	Method	AAT/NAP
Start	1	End	4663
GI	5257279	Score	5421
Exons	1..357, 472..634, 851..982, 1201..3788, 4423..4663		
GI Descrip.	(AP000364) Similar to Transposon MAGGY gag and pol gene		

homologues. (L35053) [Oryza sativa]

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o4.tw	Method	TBLASTX:Wheat
Start	73	End	340
GI	none	Score	149
Exons	73..159, 74..340, 83..286, 117..332		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o2.tm	Method	TBLASTX:Maize
Start	77	End	397
GI	none	Score	149
Exons	77..325, 80..397, 85..378, 117..395		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o2.ts	Method	TBLASTX:Soybean
Start	317	End	563
GI	none	Score	118
Exons	317..562, 318..563		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o1.tc	Method	TBLASTX:Cress
Start	339	End	655
GI	none	Score	94
Exons	339..479, 371..481, 488..655, 534..647		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o1.tw	Method	TBLASTX:Wheat
Start	371	End	889
GI	none	Score	309
Exons	371..889, 375..866		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o4.tm	Method	TBLASTX:Maize
Start	398	End	712
GI	none	Score	80
Exons	398..712, 399..500, 548..643		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o1.gs	Method	GENSCAN
Start	482	End	5417
GI	none	Score	.69
Exons	482..1120, 1201..3205, 3288..4006, 4452..4658, 5386..5417		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o2.tw	Method	TBLASTX:Wheat
Start	971	End	1603
GI	none	Score	121
Exons	971..1207, 989..1180, 1014..1208, 1198..1602, 1207..1518, 1241..1603		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o1.tm	Method	TBLASTX:Maize
Start	1043	End	1702
GI	none	Score	86
Exons	1043..1198, 1055..1180, 1261..1701, 1274..1702		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o3.ts	Method	TBLASTX:Soybean
Start	1103	End	1566
GI	none	Score	207
Exons	1103..1171, 1321..1566		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o1.gp	Method	AAT/GAP
Start	1236	End	2430
GI	4107139	Score	2010
Exons	1236..2430		
GI Descrip.	5257279/dbj|BAA81778.1| 0.0e+00 (AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o1.ts	Method	TBLASTX:Soybean
Start	1587	End	1983
GI	none	Score	223
Exons	1587..1694, 1588..1947, 1589..1945, 1794..1952, 1804..1953, 1951..1983, 1952..1981, 1954..1983		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o5.tw	Method	TBLASTX:Wheat
Start	1606	End	1875
GI	none	Score	244
Exons	1606..1875, 1607..1873		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o5.tm	Method	TBLASTX:Maize

Start	1706	End	1869
GI	none	Score	142
Exons	1706..1864, 1708..1869, 1714..1869		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o3.tm	Method	TBLASTX:Maize
Start	1870	End	2340
GI	none	Score	65
Exons	1870..2340, 2093..2266		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o3.tw	Method	TBLASTX:Wheat
Start	1924	End	2406
GI	none	Score	94
Exons	1924..2406, 1928..2071, 1933..2286, 2099..2395		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o4.ts	Method	TBLASTX:Soybean
Start	2056	End	2340
GI	none	Score	179
Exons	2056..2340		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o7.tm	Method	TBLASTX:Maize
Start	2341	End	2503
GI	none	Score	145
Exons	2341..2502, 2342..2503		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o7.tw	Method	TBLASTX:Wheat
Start	2578	End	2956
GI	none	Score	68
Exons	2578..2700, 2579..2689, 2584..2736, 2734..2955, 2834..2956		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o6.tm	Method	TBLASTX:Maize
Start	2638	End	2961
GI	none	Score	53
Exons	2638..2700, 2638..2961, 2813..2914		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o6.tw	Method	TBLASTX:Wheat
Start	3509	End	3895

GI	none	Score	107
Exons	3509..3655, 3690..3872, 3704..3895		

Seq. No.	53943	Seq. ID	OJ990505_03.0420.C59
Gene No.	113295	Strand	-
Start	1	End	5420
Name	OJ990505_03.0420.C59.o2.gp	Method	AAT/GAP
Start	5195	End	5420
GI	23020_1.R1084	Score	398
Exons	5195..5420		
GI Descrip.	'3367522 2.0e-27 (AC004392) EST gb_T04691 comes from this gene. [Arabidopsis thaliana]'		

Seq. No.	53944	Seq. ID	OJ990505_03.0420.C60
Gene No.	113296	Strand	+
Start	3731	End	4768
Name	OJ990505_03.0420.C60.o2.gs	Method	GENSCAN
Start	3731	End	4768
GI	none	Score	.83
Exons	3731..3797, 4132..4183, 4678..4768		

Seq. No.	53944	Seq. ID	OJ990505_03.0420.C60
Gene No.	113297	Strand	+
Start	6562	End	6789
Name	OJ990505_03.0420.C60.o3.gs	Method	GENSCAN
Start	6562	End	6789
GI	none	Score	.98
Exons	6562..6789		

Seq. No.	53944	Seq. ID	OJ990505_03.0420.C60
Gene No.	113298	Strand	+
Start	8851	End	9154
Name	OJ990505_03.0420.C60.o3.gp	Method	AAT/GAP
Start	8851	End	9154
GI	4715163	Score	537
Exons	8851..9154		
GI Descrip.	6002631/gb|AAF00071.1|AF093604_1 1.0e-23 (AF093604) apyrase [Arabidopsis thaliana]		

Seq. No.	53944	Seq. ID	OJ990505_03.0420.C60
Gene No.	113299	Strand	-
Start	1	End	3063
Name	OJ990505_03.0420.C60.o1.gp	Method	AAT/GAP
Start	1	End	178
GI	60382_1.R1084	Score	317
Exons	1..178		
GI Descrip.	'6002631/gb|AAF00071.1|AF093604_1 1.0e-23 (AF093604) apyrase [Arabidopsis thaliana]'		

Seq. No.	53944	Seq. ID	OJ990505_03.0420.C60
Gene No.	113299	Strand	-
Start	1	End	3063
Name	OJ990505_03.0420.C60.o1.np	Method	AAT/NAP
Start	1	End	3063
GI	6910588	Score	403
Exons	1..177, 1277..1530, 2980..3063		
GI Descrip.	(AC006424) CDS [Arabidopsis thaliana]		

Seq. No.	53944	Seq. ID	OJ990505_03.0420.C60
Gene No.	113299	Strand	-
Start	1	End	3063
Name	OJ990505_03.0420.C60.o1.gs	Method	GENSCAN
Start	1137	End	1557
GI	none	Score	.57
Exons	1137..1235, 1277..1366, 1465..1557		

Seq. No.	53944	Seq. ID	OJ990505_03.0420.C60
Gene No.	113300	Strand	-
Start	7254	End	9154
Name	OJ990505_03.0420.C60.o1.tc	Method	TBLASTX:Cress
Start	1	End	1440
GI	none	Score	137
Exons	1..183, 2..178, 1330..1440		

Seq. No.	53944	Seq. ID	OJ990505_03.0420.C60
Gene No.	113300	Strand	-
Start	7254	End	9154
Name	OJ990505_03.0420.C60.o1.tm	Method	TBLASTX:Maize
Start	1	End	186
GI	none	Score	88
Exons	1..126, 2..124, 127..186, 128..178		

Seq. No.	53944	Seq. ID	OJ990505_03.0420.C60
Gene No.	113300	Strand	-
Start	7254	End	9154
Name	OJ990505_03.0420.C60.o1.ts	Method	TBLASTX:Soybean
Start	7	End	1438
GI	none	Score	135
Exons	7..183, 11..175, 1322..1438, 1330..1437		

Seq. No.	53944	Seq. ID	OJ990505_03.0420.C60
Gene No.	113300	Strand	-
Start	7254	End	9154
Name	OJ990505_03.0420.C60.o2.tm	Method	TBLASTX:Maize
Start	1262	End	1518
GI	none	Score	47
Exons	1262..1324, 1275..1316, 1277..1324, 1325..1441, 1325..1369, 1330..1440, 1345..1467, 1416..1460, 1489..1518		

Seq. No.	53944	Seq. ID	OJ990505_03.0420.C60
Gene No.	113300	Strand	-
Start	7254	End	9154
Name	OJ990505_03.0420.C60.o4.gs	Method	GENSCAN
Start	7254	End	9152
GI	none	Score	.81
Exons	7254..7466, 9108..9152		

Seq. No.	53944	Seq. ID	OJ990505_03.0420.C60
Gene No.	113300	Strand	-
Start	7254	End	9154
Name	OJ990505_03.0420.C60.o2.np	Method	AAT/NAP
Start	9036	End	9154
GI	6002631	Score	117
Exons	9036..9154		

GI Descrip. (AF093604) apyrase [Arabidopsis thaliana] gi|6721177|gb|AAF26805.1|AC016829_29 (AC016829) apyrase (Atapy1) [Arabidopsis thaliana]

Seq. No.	53945	Seq. ID	OJ990505_03.0420.C61
Gene No.	113301	Strand	-
Start	1	End	2560
Name	OJ990505_03.0420.C61.o1.np	Method	AAT/NAP
Start	1	End	2551
GI	1709358	Score	773
Exons	1..235, 447..661, 806..897, 1176..1469, 1602..1663, 1922..2050, 2318..2551		

GI Descrip. NUCLEOSIDE-TRIPHOSPHATASE (NUCLEOSIDE TRIPHOSPHATE PHOSPHOHYDROLASE) (NTPASE) gi|629638|pir||S48859 nucleoside triphosphatase - garden pea gi|2129890|pir||S65147 nucleoside triphosphatase precursor, chromatin-associated - garden pea gi|563612|emb|CAA83655| (Z32743) nucleoside triphosphatase [Pisum sativum] gi|4519173|dbj|BAA75506.1| (AB022319) apyrase [Pisum sativum]

Seq. No.	53945	Seq. ID	OJ990505_03.0420.C61
Gene No.	113301	Strand	-
Start	1	End	2560
Name	OJ990505_03.0420.C61.o1.tm	Method	TBLASTX:Maize
Start	56	End	2010
GI	none	Score	52
Exons	56..112, 57..128, 110..238, 111..236, 444..662, 445..654, 804..845, 805..846, 852..899, 856..900, 1173..1295, 1177..1461, 1178..1486, 1185..1475, 1295..1480, 1601..1663, 1605..1664, 1907..2005, 1923..2006, 1963..2010		

Seq. No.	53945	Seq. ID	OJ990505_03.0420.C61
Gene No.	113301	Strand	-
Start	1	End	2560
Name	OJ990505_03.0420.C61.o1.ts	Method	TBLASTX:Soybean
Start	56	End	2429
GI	none	Score	108
Exons	56..103, 104..241, 456..662, 460..597, 804..899, 1178..1486, 1182..1475, 1601..1663, 1907..2050, 1923..2045, 2312..2428, 2379..2429		

Seq. No.	53945	Seq. ID	OJ990505_03.0420.C61
Gene No.	113301	Strand	-
Start	1	End	2560
Name	OJ990505_03.0420.C61.o1.gs	Method	GENSCAN
Start	65	End	2560
GI	none	Score	.85
Exons	65..235, 447..661, 806..897, 1176..1249, 1607..1663, 1922..2050, 2318..2560		

Seq. No.	53945	Seq. ID	OJ990505_03.0420.C61
Gene No.	113301	Strand	-
Start	1	End	2560
Name	OJ990505_03.0420.C61.o1.gp	Method	AAT/GAP
Start	265	End	2551
GI	29619_1.R1084	Score	1590
Exons	265..661, 806..897, 1607..1663, 1922..2050, 2318..2551		

GI Descrip.	'5257279/dbj|BAA81778.1| 0.0e+00 (AP000364) Similar to Transposon MAGGY gag and pol gene homologues. (L35053) [Oryza sativa]'		
Seq. No.	53945	Seq. ID	OJ990505_03.0420.C61
Gene No.	113301	Strand	-
Start	1	End	2560
Name	OJ990505_03.0420.C61.o1.tw	Method	TBLASTX:Wheat
Start	1613	End	2531
GI	none	Score	54
Exons	1613..1663, 1614..1664, 1907..2050, 1921..2052, 1923..2072, 2315..2482, 2316..2531		
Seq. No.	53946	Seq. ID	OJ990505_03.0420.C62
Gene No.	113302	Strand	+
Start	17	End	1667
Name	OJ990505_03.0420.C62.o1.gs	Method	GENSCAN
Start	17	End	1667
GI	none	Score	.52
Exons	17..389, 1609..1667		
Seq. No.	53947	Seq. ID	OJ990505_03.0420.C63
Gene No.	113303	Strand	+
Start	1	End	2715
Name	OJ990505_03.0420.C63.o2.np	Method	AAT/NAP
Start	1	End	2715
GI	4678924	Score	273
Exons	1..108, 1366..1550, 1669..1858, 2513..2715		
GI Descrip.	(AL049711) putative protein [Arabidopsis thaliana]		
Seq. No.	53947	Seq. ID	OJ990505_03.0420.C63
Gene No.	113303	Strand	+
Start	1	End	2715
Name	OJ990505_03.0420.C63.o1.gs	Method	GENSCAN
Start	841	End	2652
GI	none	Score	.55
Exons	841..1088, 1156..1550, 1974..2065, 2499..2652		
Seq. No.	53947	Seq. ID	OJ990505_03.0420.C63
Gene No.	113303	Strand	+
Start	1	End	2715
Name	OJ990505_03.0420.C63.o1.np	Method	AAT/NAP
Start	871	End	2715
GI	4678924	Score	274
Exons	871..913, 1410..1550, 1669..1858, 2513..2715		
GI Descrip.	(AL049711) putative protein [Arabidopsis thaliana]		
Seq. No.	53947	Seq. ID	OJ990505_03.0420.C63
Gene No.	113303	Strand	+
Start	1	End	2715
Name	OJ990505_03.0420.C63.o2.tm	Method	TBLASTX:Maize
Start	906	End	1121
GI	none	Score	193
Exons	906..1121, 918..1103		
Seq. No.	53947	Seq. ID	OJ990505_03.0420.C63
Gene No.	113303	Strand	+

Start	1	End	2715
Name	OJ990505_03.0420.C63.o1.tm	Method	TBLASTX:Maize
Start	1438	End	2394
GI	none	Score	115
Exons	1438..1548, 1446..1550, 1666..1854, 1667..1867, 1668..1856, 2020..2067, 2142..2318, 2144..2296, 2154..2300, 2350..2394		

Seq. No.	53947	Seq. ID	OJ990505_03.0420.C63
Gene No.	113303	Strand	+
Start	1	End	2715
Name	OJ990505_03.0420.C63.o1.ts	Method	TBLASTX:Soybean
Start	1471	End	1857
GI	none	Score	95
Exons	1471..1548, 1485..1568, 1666..1857, 1667..1849		

Seq. No.	53947	Seq. ID	OJ990505_03.0420.C63
Gene No.	113303	Strand	+
Start	1	End	2715
Name	OJ990505_03.0420.C63.o1.tc	Method	TBLASTX:Cress
Start	1477	End	1855
GI	none	Score	90
Exons	1477..1548, 1485..1550, 1666..1851, 1667..1855		

Seq. No.	53948	Seq. ID	OJ990505_03.0420.C64
Gene No.	113304	Strand	+
Start	322	End	1237
Name	OJ990505_03.0420.C64.o1.gs	Method	GENSCAN
Start	322	End	1237
GI	none	Score	.92
Exons	322..475, 915..1102, 1215..1237		

Seq. No.	53948	Seq. ID	OJ990505_03.0420.C64
Gene No.	113305	Strand	+
Start	4074	End	7871
Name	OJ990505_03.0420.C64.o3.gs	Method	GENSCAN
Start	4074	End	6760
GI	none	Score	.69
Exons	4074..4362, 5075..5181, 5625..5735, 5893..6036, 6148..6360, 6551..6760		

Seq. No.	53948	Seq. ID	OJ990505_03.0420.C64
Gene No.	113305	Strand	+
Start	4074	End	7871
Name	OJ990505_03.0420.C64.o2.np	Method	AAT/NAP
Start	5653	End	7871
GI	2494119	Score	433
Exons	5653..5776, 5880..6036, 6148..6360, 6551..6751, 7743..7871		
GI Descrip.	(AC002376) EST gb|T04104 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	53948	Seq. ID	OJ990505_03.0420.C64
Gene No.	113306	Strand	-
Start	1718	End	2638
Name	OJ990505_03.0420.C64.o1.np	Method	AAT/NAP
Start	1718	End	2638
GI	417148	Score	374
Exons	1718..2068, 2134..2202, 2396..2638		

GI Descrip. PROBABLE GLUTATHIONE S-TRANSFERASE (HEAT SHOCK PROTEIN 26A) (G2-4) gi|99912|pir||A33654 heat shock protein 26A - soybean gi|169981 (M20363) Gmhsp26-A [Glycine max]

Seq. No.	53948	Seq. ID	OJ990505_03.0420.C64
Gene No.	113307	Strand	-
Start	7236	End	7625
Name	OJ990505_03.0420.C64.o1.ts	Method	TBLASTX:Soybean
Start	1733	End	2623
GI	none	Score	57
Exons	1733..2044, 1770..1892, 1923..1955, 2134..2202, 2399..2437, 2444..2536, 2453..2545, 2525..2623		

Seq. No.	53948	Seq. ID	OJ990505_03.0420.C64
Gene No.	113307	Strand	-
Start	7236	End	7625
Name	OJ990505_03.0420.C64.o1.tc	Method	TBLASTX:Cress
Start	1766	End	2626
GI	none	Score	75
Exons	1766..2032, 2149..2202, 2399..2437, 2444..2536, 2528..2626		

Seq. No.	53948	Seq. ID	OJ990505_03.0420.C64
Gene No.	113307	Strand	-
Start	7236	End	7625
Name	OJ990505_03.0420.C64.o1.tm	Method	TBLASTX:Maize
Start	5619	End	6234
GI	none	Score	133
Exons	5619..5738, 5620..5736, 5624..5740, 5647..5748, 5898..5993, 5900..5995, 5923..5994, 5982..6038, 5993..6037, 6000..6038, 6001..6039, 6115..6234, 6148..6234		

Seq. No.	53948	Seq. ID	OJ990505_03.0420.C64
Gene No.	113307	Strand	-
Start	7236	End	7625
Name	OJ990505_03.0420.C64.o2.ts	Method	TBLASTX:Soybean
Start	5922	End	6234
GI	none	Score	150
Exons	5922..6038, 5923..6039, 6148..6234		

Seq. No.	53948	Seq. ID	OJ990505_03.0420.C64
Gene No.	113307	Strand	-
Start	7236	End	7625
Name	OJ990505_03.0420.C64.o4.gs	Method	GENSCAN
Start	7236	End	7625
GI	none	Score	.5
Exons	7236..7625		

Seq. No.	53949	Seq. ID	OJ990505_03.0420.C65
Gene No.	113308	Strand	+
Start	325	End	698
Name	OJ990505_03.0420.C65.o1.gs	Method	GENSCAN
Start	325	End	698
GI	none	Score	.87
Exons	325..555, 621..698		

Seq. No.	53949	Seq. ID	OJ990505_03.0420.C65
Gene No.	113309	Strand	+

Start	2044	End	2280
Name	OJ990505_03.0420.C65.o2.gs	Method	GENSCAN
Start	2044	End	2280
GI	none	Score	.81
Exons	2044..2280		

Seq. No.	53950	Seq. ID	OJ990505_03.0420.C67
Gene No.	113310	Strand	-
Start	1	End	1892
Name	OJ990505_03.0420.C67.o1.np	Method	AAT/NAP
Start	1	End	901
GI	6721562	Score	1419
Exons	1..901		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi|6815087|dbj|BAA90373.1| (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		

Seq. No.	53950	Seq. ID	OJ990505_03.0420.C67
Gene No.	113310	Strand	-
Start	1	End	1892
Name	OJ990505_03.0420.C67.o1.gs	Method	GENSCAN
Start	58	End	1515
GI	none	Score	.9
Exons	58..919, 976..1080, 1429..1515		

Seq. No.	53950	Seq. ID	OJ990505_03.0420.C67
Gene No.	113310	Strand	-
Start	1	End	1892
Name	OJ990505_03.0420.C67.o2.np	Method	AAT/NAP
Start	1129	End	1892
GI	5042454	Score	197
Exons	1129..1182, 1429..1602, 1828..1892		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	53951	Seq. ID	OJ990505_03.0420.C68
Gene No.	113311	Strand	-
Start	1	End	342
Name	OJ990505_03.0420.C68.o1.np	Method	AAT/NAP
Start	1	End	342
GI	6498423	Score	266
Exons	1..342		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	53951	Seq. ID	OJ990505_03.0420.C68
Gene No.	113311	Strand	-
Start	1	End	342
Name	OJ990505_03.0420.C68.o1.gs	Method	GENSCAN
Start	18	End	305
GI	none	Score	.8
Exons	18..305		

Seq. No.	53952	Seq. ID	OJ990505_03.0420.C69
Gene No.	113312	Strand	+
Start	275	End	461
Name	OJ990505_03.0420.C69.o1.gs	Method	GENSCAN

Start	275	End	461
GI	none	Score	.82
Exons	275..289, 396..461		

Seq. No.	53953	Seq. ID	OJ990505_03.0420.C70
Gene No.	113313	Strand	-
Start	1	End	1520
Name	OJ990505_03.0420.C70.o1.np	Method	AAT/NAP
Start	1	End	1520
GI	7228457	Score	2335
Exons	1..1520		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	53953	Seq. ID	OJ990505_03.0420.C70
Gene No.	113313	Strand	-
Start	1	End	1520
Name	OJ990505_03.0420.C70.o2.tw	Method	TBLASTX:Wheat
Start	74	End	334
GI	none	Score	89
Exons	74..334, 75..230		

Seq. No.	53953	Seq. ID	OJ990505_03.0420.C70
Gene No.	113313	Strand	-
Start	1	End	1520
Name	OJ990505_03.0420.C70.o1.gs	Method	GENSCAN
Start	186	End	1440
GI	none	Score	.62
Exons	186..1041, 1195..1328, 1349..1440		

Seq. No.	53953	Seq. ID	OJ990505_03.0420.C70
Gene No.	113313	Strand	-
Start	1	End	1520
Name	OJ990505_03.0420.C70.o1.tw	Method	TBLASTX:Wheat
Start	947	End	1339
GI	none	Score	95
Exons	947..1204, 981..1220, 1187..1285, 1188..1280, 1292..1339		

Seq. No.	53953	Seq. ID	OJ990505_03.0420.C70
Gene No.	113313	Strand	-
Start	1	End	1520
Name	OJ990505_03.0420.C70.o1.tm	Method	TBLASTX:Maize
Start	1049	End	1334
GI	none	Score	92
Exons	1049..1297, 1050..1334		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113314	Strand	+
Start	13970	End	15380
Name	OJ990505_03.0420.C73.o3.np	Method	AAT/NAP
Start	13970	End	15380
GI	4558666	Score	901
Exons	13970..15194, 15280..15380		
GI Descrip.	(AC007063) putative Na/H antiporter [Arabidopsis thaliana]		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73

Gene No.	113315	Strand	-
Start	68	End	4955
Name	OJ990505_03.0420.C73.o1.gs	Method	GENSCAN
Start	68	End	4955
GI	none	Score	.9
Exons	68..160, 529..622, 1049..1245, 1293..1413, 1603..1670, 1859..1930, 3112..3289, 4621..4955		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113315	Strand	-
Start	68	End	4955
Name	OJ990505_03.0420.C73.o1.np	Method	AAT/NAP
Start	71	End	4943
GI	3786005	Score	1387
Exons	71..139, 529..651, 733..798, 1293..1413, 1603..1670, 1859..1930, 2461..2642, 3054..3289, 4621..4943		
GI Descrip.	(AC005499) putative phospholipid cytidylyltransferase [Arabidopsis thaliana]		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113315	Strand	-
Start	68	End	4955
Name	OJ990505_03.0420.C73.o1.gp	Method	AAT/GAP
Start	121	End	542
GI	none	Score	786
Exons	121..542		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113315	Strand	-
Start	68	End	4955
Name	OJ990505_03.0420.C73.o2.gp	Method	AAT/GAP
Start	1593	End	3168
GI	LIB3432-052-P1-K1-C8	Score	764
Exons	1593..1670, 1859..1930, 2461..2642, 3054..3168		
GI Descrip.	'3786005 1.0e-60 (AC005499) putative phosphoethanolamine cytidylyltransferase [Arabidopsis thaliana]'		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113316	Strand	-
Start	6582	End	9538
Name	OJ990505_03.0420.C73.o2.gs	Method	GENSCAN
Start	6582	End	9538
GI	none	Score	.98
Exons	6582..6752, 6914..7028, 7304..7395, 7502..7587, 8024..8123, 9247..9277, 9483..9538		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113316	Strand	-
Start	6582	End	9538
Name	OJ990505_03.0420.C73.o2.np	Method	AAT/NAP
Start	6585	End	9232
GI	3687235	Score	434
Exons	6585..6752, 6914..7028, 7304..7395, 7502..7587, 8024..8123, 9143..9232		
GI Descrip.	(AC005169) copia-like retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113317	Strand	-
Start	10499	End	15203
Name	OJ990505_03.0420.C73.o1.ts	Method	TBLASTX:Soybean
Start	68	End	4937
GI	none	Score	171
Exons	68..142, 528..653, 529..654, 530..652, 733..798, 737..799, 739..798, 1278..1391, 1281..1406, 1287..1415, 1593..1664, 1603..1671, 1605..1670, 1856..1933, 1858..1938, 1859..1933, 1860..1937, 1861..1947, 2456..2593, 2461..2610, 2462..2608, 2593..2661, 3050..3283, 3052..3291, 3053..3283, 3223..3285, 4620..4775, 4621..4761, 4647..4775, 4854..4931, 4855..4911, 4860..4937		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113317	Strand	-
Start	10499	End	15203
Name	OJ990505_03.0420.C73.o2.tm	Method	TBLASTX:Maize
Start	68	End	4937
GI	none	Score	61
Exons	68..142, 82..147, 529..654, 530..652, 733..798, 737..799, 739..798, 1593..1664, 1603..1671, 1605..1670, 1856..1933, 1859..1933, 1860..1937, 1861..1947, 2456..2593, 2461..2610, 2462..2608, 2538..2648, 2612..2662, 4620..4775, 4621..4761, 4647..4775, 4854..4931, 4855..4911, 4860..4937		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113317	Strand	-
Start	10499	End	15203
Name	OJ990505_03.0420.C73.o2.tc	Method	TBLASTX:Cress
Start	733	End	3202
GI	none	Score	63
Exons	733..798, 1286..1375, 1287..1415, 1294..1404, 1294..1419, 1295..1420, 1603..1671, 1605..1670, 1856..1933, 1860..1931, 1860..1937, 2461..2550, 2471..2551, 2524..2664, 2534..2662, 3052..3201, 3053..3082, 3104..3202		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113317	Strand	-
Start	10499	End	15203
Name	OJ990505_03.0420.C73.o1.tm	Method	TBLASTX:Maize
Start	1278	End	3312
GI	none	Score	267
Exons	1278..1379, 3039..3287, 3039..3158, 3050..3286, 3052..3312, 3053..3292		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113317	Strand	-
Start	10499	End	15203
Name	OJ990505_03.0420.C73.o1.tc	Method	TBLASTX:Cress
Start	4614	End	4925
GI	none	Score	129
Exons	4614..4775, 4615..4761, 4860..4925		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113317	Strand	-
Start	10499	End	15203

Name	OJ990505_03.0420.C73.o1.tw	Method	TBLASTX:Wheat
Start	4725	End	5055
GI	none	Score	59
Exons	4725..4775, 4729..4761, 4815..4943, 4855..4911, 4863..4940, 4990..5055		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113317	Strand	-
Start	10499	End	15203
Name	OJ990505_03.0420.C73.o3.tm	Method	TBLASTX:Maize
Start	6582	End	9236
GI	none	Score	96
Exons	6582..6644, 6638..6721, 6713..6754, 6906..6986, 6912..6977, 6914..7024, 6914..7027, 7262..7399, 7291..7395, 7496..7588, 7512..7589, 8025..8126, 8074..8124, 9144..9200, 9183..9236		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113317	Strand	-
Start	10499	End	15203
Name	OJ990505_03.0420.C73.o2.ts	Method	TBLASTX:Soybean
Start	6906	End	8126
GI	none	Score	92
Exons	6906..6986, 6914..7024, 6914..7027, 6985..7005, 7291..7395, 7473..7589, 7481..7588, 8028..8126		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113317	Strand	-
Start	10499	End	15203
Name	OJ990505_03.0420.C73.o3.tc	Method	TBLASTX:Cress
Start	6906	End	8126
GI	none	Score	92
Exons	6906..6986, 6914..7024, 6914..7027, 7291..7395, 7316..7396, 7473..7589, 7481..7588, 8028..8126		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113317	Strand	-
Start	10499	End	15203
Name	OJ990505_03.0420.C73.o3.gs	Method	GENSCAN
Start	10499	End	15203
GI	none	Score	.42
Exons	10499..10610, 10760..10899, 14004..14582, 14604..15203		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113317	Strand	-
Start	10499	End	15203
Name	OJ990505_03.0420.C73.o4.tc	Method	TBLASTX:Cress
Start	14166	End	14564
GI	none	Score	161
Exons	14166..14393, 14472..14564		

Seq. No.	53954	Seq. ID	OJ990505_03.0420.C73
Gene No.	113317	Strand	-
Start	10499	End	15203
Name	OJ990505_03.0420.C73.o3.ts	Method	TBLASTX:Soybean
Start	14814	End	15008
GI	none	Score	190
Exons	14814..15008, 14864..15007		

Seq. No.	53955	Seq. ID	OJ990505_03.0420.C74
Gene No.	113318	Strand	+
Start	1	End	761
Name	OJ990505_03.0420.C74.o1.np	Method	AAT/NAP
Start	1	End	683
GI	4678937	Score	268
Exons	1..683		
GI Descrip.	(AL049711) putative protein [Arabidopsis thaliana]		

Seq. No.	53955	Seq. ID	OJ990505_03.0420.C74
Gene No.	113318	Strand	+
Start	1	End	761
Name	OJ990505_03.0420.C74.o1.gs	Method	GENSCAN
Start	90	End	761
GI	none	Score	.91
Exons	90..761		

Seq. No.	53955	Seq. ID	OJ990505_03.0420.C74
Gene No.	113319	Strand	+
Start	3524	End	5807
Name	OJ990505_03.0420.C74.o3.gs	Method	GENSCAN
Start	3524	End	5807
GI	none	Score	.61
Exons	3524..3872, 5296..5469, 5749..5807		

Seq. No.	53955	Seq. ID	OJ990505_03.0420.C74
Gene No.	113320	Strand	-
Start	1	End	5692
Name	OJ990505_03.0420.C74.o2.np	Method	AAT/NAP
Start	1	End	5692
GI	4096360	Score	139
Exons	1..26, 306..710, 1580..1651, 1719..2000, 5662..5692		
GI Descrip.	(U31159) CR16 [Rattus norvegicus] gi|4096372|gb|AAC99859.1| (U31169) SH3 domain binding protein [Rattus norvegicus]		

Seq. No.	53955	Seq. ID	OJ990505_03.0420.C74
Gene No.	113320	Strand	-
Start	1	End	5692
Name	OJ990505_03.0420.C74.o1.tm	Method	TBLASTX:Maize
Start	6	End	245
GI	none	Score	326
Exons	6..245, 8..244		

Seq. No.	53955	Seq. ID	OJ990505_03.0420.C74
Gene No.	113320	Strand	-
Start	1	End	5692
Name	OJ990505_03.0420.C74.o1.tw	Method	TBLASTX:Wheat
Start	518	End	641
GI	none	Score	180
Exons	518..640, 519..641		

Seq. No.	53956	Seq. ID	OJ990505_03.0420.C75
Gene No.	113321	Strand	-
Start	748	End	1145
Name	OJ990505_03.0420.C75.o1.np	Method	AAT/NAP
Start	748	End	1145

GI	7523512	Score	109
Exons	748..920, 1047..1145		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	53957	Seq. ID	OJ990505_03.0420.C76
Gene No.	113322	Strand	+
Start	1	End	3229
Name	OJ990505_03.0420.C76.o1.np	Method	AAT/NAP
Start	1	End	3229
GI	7228457	Score	4634
Exons	1..374, 438..1272, 1395..2546, 2613..3229		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	53957	Seq. ID	OJ990505_03.0420.C76
Gene No.	113322	Strand	+
Start	1	End	3229
Name	OJ990505_03.0420.C76.o4.tw	Method	TBLASTX:Wheat
Start	29	End	254
GI	none	Score	247
Exons	29..250, 30..254, 63..254		

Seq. No.	53957	Seq. ID	OJ990505_03.0420.C76
Gene No.	113322	Strand	+
Start	1	End	3229
Name	OJ990505_03.0420.C76.o1.tw	Method	TBLASTX:Wheat
Start	446	End	908
GI	none	Score	572
Exons	446..901, 447..908, 447..902		

Seq. No.	53957	Seq. ID	OJ990505_03.0420.C76
Gene No.	113322	Strand	+
Start	1	End	3229
Name	OJ990505_03.0420.C76.o2.ts	Method	TBLASTX:Soybean
Start	486	End	851
GI	none	Score	121
Exons	486..710, 717..851		

Seq. No.	53957	Seq. ID	OJ990505_03.0420.C76
Gene No.	113322	Strand	+
Start	1	End	3229
Name	OJ990505_03.0420.C76.o1.tm	Method	TBLASTX:Maize
Start	576	End	932
GI	none	Score	383
Exons	576..932, 611..922, 627..932		

Seq. No.	53957	Seq. ID	OJ990505_03.0420.C76
Gene No.	113322	Strand	+
Start	1	End	3229
Name	OJ990505_03.0420.C76.o2.tm	Method	TBLASTX:Maize
Start	959	End	1343
GI	none	Score	351
Exons	959..1324, 960..1343		

Seq. No.	53957	Seq. ID	OJ990505_03.0420.C76
Gene No.	113322	Strand	+

Start	1	End	3229
Name	OJ990505_03.0420.C76.o2.tw	Method	TBLASTX:Wheat
Start	1016	End	1436
GI	none	Score	476
Exons	1016..1429, 1017..1436		

Seq. No.	53957	Seq. ID	OJ990505_03.0420.C76
Gene No.	113322	Strand	+
Start	1	End	3229
Name	OJ990505_03.0420.C76.o1.ts	Method	TBLASTX:Soybean
Start	1065	End	1466
GI	none	Score	276
Exons	1065..1466, 1112..1336		

Seq. No.	53957	Seq. ID	OJ990505_03.0420.C76
Gene No.	113322	Strand	+
Start	1	End	3229
Name	OJ990505_03.0420.C76.o3.tw	Method	TBLASTX:Wheat
Start	2067	End	2525
GI	none	Score	53
Exons	2067..2321, 2071..2289, 2091..2342, 2156..2341, 2376..2525, 2385..2522, 2387..2524		

Seq. No.	53957	Seq. ID	OJ990505_03.0420.C76
Gene No.	113322	Strand	+
Start	1	End	3229
Name	OJ990505_03.0420.C76.o3.ts	Method	TBLASTX:Soybean
Start	2214	End	2780
GI	5666795	Score	67
Exons	2214..2312, 2388..2525, 2589..2780		
GI Descrip.	4206306 2.0e-10 (AF049110) prpol [Zea mays]		

Seq. No.	53957	Seq. ID	OJ990505_03.0420.C76
Gene No.	113322	Strand	+
Start	1	End	3229
Name	OJ990505_03.0420.C76.o5.tw	Method	TBLASTX:Wheat
Start	2528	End	2840
GI	none	Score	183
Exons	2528..2704, 2589..2840		

Seq. No.	53958	Seq. ID	OJ990505_03.0420.C77
Gene No.	113323	Strand	+
Start	1	End	943
Name	OJ990505_03.0420.C77.o1.np	Method	AAT/NAP
Start	1	End	940
GI	7228457	Score	1574
Exons	1..940		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	53958	Seq. ID	OJ990505_03.0420.C77
Gene No.	113323	Strand	+
Start	1	End	943
Name	OJ990505_03.0420.C77.o1.gs	Method	GENSCAN
Start	127	End	943
GI	none	Score	.88

Exons	127..943		
Seq. No.	53958	Seq. ID	OJ990505_03.0420.C77
Gene No.	113324	Strand	+
Start	1102	End	1439
Name	OJ990505_03.0420.C77.o1.tm	Method	TBLASTX:Maize
Start	2	End	346
GI	none	Score	162
Exons	2..235, 233..346		
Seq. No.	53958	Seq. ID	OJ990505_03.0420.C77
Gene No.	113324	Strand	+
Start	1102	End	1439
Name	OJ990505_03.0420.C77.o1.tw	Method	TBLASTX:Wheat
Start	35	End	433
GI	none	Score	334
Exons	35..433, 43..126, 151..294		
Seq. No.	53958	Seq. ID	OJ990505_03.0420.C77
Gene No.	113324	Strand	+
Start	1102	End	1439
Name	OJ990505_03.0420.C77.o2.tm	Method	TBLASTX:Maize
Start	800	End	940
GI	none	Score	183
Exons	800..940, 805..939		
Seq. No.	53958	Seq. ID	OJ990505_03.0420.C77
Gene No.	113324	Strand	+
Start	1102	End	1439
Name	OJ990505_03.0420.C77.o1.gp	Method	AAT/GAP
Start	1102	End	1439
GI	2428323	Score	640
Exons	1102..1439		
GI Descrip.	5803242/dbj|AP000399.1|AP000399 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0535G04		
Seq. No.	53959	Seq. ID	OJ990505_03.0420.C78
Gene No.	113325	Strand	+
Start	1	End	166
Name	OJ990505_03.0420.C78.o1.np	Method	AAT/NAP
Start	1	End	166
GI	6721562	Score	106
Exons	1..42, 98..166		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi|6815087|dbj|BAA90373.1| (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		
Seq. No.	53959	Seq. ID	OJ990505_03.0420.C78
Gene No.	113326	Strand	-
Start	406	End	489
Name	OJ990505_03.0420.C78.o1.gs	Method	GENSCAN
Start	406	End	489
GI	none	Score	.82
Exons	406..489		

Seq. No.	53960	Seq. ID	OJ990505_03.0420.C81
Gene No.	113327	Strand	-
Start	1	End	1287
Name	OJ990505_03.0420.C81.o1.np	Method	AAT/NAP
Start	1	End	1287
GI	7106512	Score	143
Exons	1..53, 892..1287		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53960	Seq. ID	OJ990505_03.0420.C81
Gene No.	113328	Strand	-
Start	1347	End	1644
Name	OJ990505_03.0420.C81.o1.gs	Method	GENSCAN
Start	1347	End	1644
GI	none	Score	.97
Exons	1347..1644		

Seq. No.	53961	Seq. ID	OJ990505_03.0420.C86
Gene No.	113329	Strand	-
Start	565	End	1232
Name	OJ990505_03.0420.C86.o1.gs	Method	GENSCAN
Start	565	End	1109
GI	none	Score	.96
Exons	565..1109		

Seq. No.	53961	Seq. ID	OJ990505_03.0420.C86
Gene No.	113329	Strand	-
Start	565	End	1232
Name	OJ990505_03.0420.C86.o1.np	Method	AAT/NAP
Start	568	End	1232
GI	5803259	Score	1044
Exons	568..1232		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	53962	Seq. ID	OJ990505_03.0420.C87
Gene No.	113330	Strand	-
Start	1	End	1445
Name	OJ990505_03.0420.C87.o1.np	Method	AAT/NAP
Start	1	End	1445
GI	5803259	Score	2246
Exons	1..88, 184..1445		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		

Seq. No.	53962	Seq. ID	OJ990505_03.0420.C87
Gene No.	113330	Strand	-
Start	1	End	1445
Name	OJ990505_03.0420.C87.o1.gs	Method	GENSCAN
Start	184	End	1445
GI	none	Score	.99
Exons	184..1445		

Seq. No.	53963	Seq. ID	OJ990505_03.0420.C90
Gene No.	113331	Strand	+
Start	1	End	376
Name	OJ990505_03.0420.C90.o1.gp	Method	AAT/GAP
Start	1	End	376

GI	16838_1.R1084	Score	740
Exons	1..376		
GI Descrip.	'1497987 5.0e-33 (U62798) SCARECROW [Arabidopsis thaliana]'		

Seq. No.	53963	Seq. ID	OJ990505_03.0420.C90
Gene No.	113331	Strand	+
Start	1	End	376
Name	OJ990505_03.0420.C90.o1.np	Method	AAT/NAP
Start	1	End	119
GI	6822068	Score	154
Exons	1..119		
GI Descrip.	(AL132957) SCARECROW1 [Arabidopsis thaliana]		

Seq. No.	53963	Seq. ID	OJ990505_03.0420.C90
Gene No.	113331	Strand	+
Start	1	End	376
Name	OJ990505_03.0420.C90.o1.tm	Method	TBLASTX:Maize
Start	3	End	121
GI	none	Score	208
Exons	3..119, 5..121, 5..115		

Seq. No.	53963	Seq. ID	OJ990505_03.0420.C90
Gene No.	113331	Strand	+
Start	1	End	376
Name	OJ990505_03.0420.C90.o1.ts	Method	TBLASTX:Soybean
Start	3	End	113
GI	none	Score	187
Exons	3..113, 5..112		

Seq. No.	53964	Seq. ID	OJ990505_03.0420.C91
Gene No.	113332	Strand	-
Start	171	End	557
Name	OJ990505_03.0420.C91.o1.gs	Method	GENSCAN
Start	171	End	557
GI	none	Score	.62
Exons	171..200, 342..557		

Seq. No.	53965	Seq. ID	OJ990505_03.0420.C92
Gene No.	113333	Strand	+
Start	1	End	1508
Name	OJ990505_03.0420.C92.o1.np	Method	AAT/NAP
Start	1	End	1508
GI	3482932	Score	399
Exons	1..66, 854..1259, 1428..1508		
GI Descrip.	(AC003970) Hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53965	Seq. ID	OJ990505_03.0420.C92
Gene No.	113333	Strand	+
Start	1	End	1508
Name	OJ990505_03.0420.C92.o1.gs	Method	GENSCAN
Start	135	End	1309
GI	none	Score	.81
Exons	135..316, 854..1309		

Seq. No.	53965	Seq. ID	OJ990505_03.0420.C92
Gene No.	113334	Strand	-
Start	2570	End	3372

Name	OJ990505_03.0420.C92.o1.tm	Method	TBLASTX:Maize
Start	860	End	1171
GI	none	Score	453
Exons	860..1171, 967..1170		

Seq. No.	53965	Seq. ID	OJ990505_03.0420.C92
Gene No.	113334	Strand	-
Start	2570	End	3372
Name	OJ990505_03.0420.C92.o1.tc	Method	TBLASTX:Cress
Start	953	End	1267
GI	none	Score	375
Exons	953..1258, 973..1248, 980..1267		

Seq. No.	53965	Seq. ID	OJ990505_03.0420.C92
Gene No.	113334	Strand	-
Start	2570	End	3372
Name	OJ990505_03.0420.C92.o1.ts	Method	TBLASTX:Soybean
Start	953	End	1182
GI	none	Score	326
Exons	953..1180, 954..1106, 964..1182, 967..1176		

Seq. No.	53965	Seq. ID	OJ990505_03.0420.C92
Gene No.	113334	Strand	-
Start	2570	End	3372
Name	OJ990505_03.0420.C92.o1.tw	Method	TBLASTX:Wheat
Start	979	End	1264
GI	none	Score	227
Exons	979..1191, 980..1264		

Seq. No.	53965	Seq. ID	OJ990505_03.0420.C92
Gene No.	113334	Strand	-
Start	2570	End	3372
Name	OJ990505_03.0420.C92.o2.gs	Method	GENSCAN
Start	2570	End	3372
GI	none	Score	.89
Exons	2570..2666, 3059..3372		

Seq. No.	53966	Seq. ID	OJ990505_03.0420.C93
Gene No.	113335	Strand	+
Start	1150	End	1428
Name	OJ990505_03.0420.C93.o1.gs	Method	GENSCAN
Start	1150	End	1428
GI	none	Score	.68
Exons	1150..1428		

Seq. No.	53966	Seq. ID	OJ990505_03.0420.C93
Gene No.	113336	Strand	-
Start	1719	End	3730
Name	OJ990505_03.0420.C93.o2.gs	Method	GENSCAN
Start	1719	End	3730
GI	none	Score	.51
Exons	1719..2035, 2077..2280, 3589..3730		

Seq. No.	53966	Seq. ID	OJ990505_03.0420.C93
Gene No.	113337	Strand	-
Start	3959	End	4177
Name	OJ990505_03.0420.C93.o1.np	Method	AAT/NAP

Start	3959	End	4177
GI	3786007	Score	234
Exons	3959..4177		
GI Descrip.	(AC005499) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53966	Seq. ID	OJ990505_03.0420.C93
Gene No.	113337	Strand	-
Start	3959	End	4177
Name	OJ990505_03.0420.C93.o1.tm	Method	TBLASTX:Maize
Start	3962	End	4177
GI	none	Score	72
Exons	3962..4177, 4038..4166		

Seq. No.	53967	Seq. ID	OJ990505_03.0420.C94
Gene No.	113338	Strand	-
Start	1	End	1402
Name	OJ990505_03.0420.C94.o1.np	Method	AAT/NAP
Start	1	End	1402
GI	3786007	Score	212
Exons	1..371, 1377..1402		
GI Descrip.	(AC005499) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53967	Seq. ID	OJ990505_03.0420.C94
Gene No.	113338	Strand	-
Start	1	End	1402
Name	OJ990505_03.0420.C94.o1.ts	Method	TBLASTX:Soybean
Start	120	End	303
GI	none	Score	132
Exons	120..299, 123..299, 127..303		

Seq. No.	53967	Seq. ID	OJ990505_03.0420.C94
Gene No.	113338	Strand	-
Start	1	End	1402
Name	OJ990505_03.0420.C94.o1.gs	Method	GENSCAN
Start	124	End	1222
GI	none	Score	.54
Exons	124..416, 1170..1222		

Seq. No.	53968	Seq. ID	OJ990505_03.0420.C95
Gene No.	113339	Strand	-
Start	543	End	2905
Name	OJ990505_03.0420.C95.o1.gs	Method	GENSCAN
Start	543	End	2004
GI	none	Score	.54
Exons	543..659, 1843..2004		

Seq. No.	53968	Seq. ID	OJ990505_03.0420.C95
Gene No.	113339	Strand	-
Start	543	End	2905
Name	OJ990505_03.0420.C95.o1.np	Method	AAT/NAP
Start	1414	End	2905
GI	5852093	Score	44
Exons	1414..1529, 2866..2905		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	53969	Seq. ID	OJ990505_03.0420.C96
Gene No.	113340	Strand	+

Start	1	End	1507
Name	OJ990505_03.0420.C96.o1.np	Method	AAT/NAP
Start	1	End	1507
GI	6063554	Score	172
Exons	1..198, 243..271, 1331..1507		
GI Descrip.	(AP000615) ESTs AU075609(C63344),C71850(E0464),C98611(E0464) correspond to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53969	Seq. ID	OJ990505_03.0420.C96
Gene No.	113340	Strand	+
Start	1	End	1507
Name	OJ990505_03.0420.C96.o1.gs	Method	GENSCAN
Start	13	End	349
GI	none	Score	.92
Exons	13..211, 243..349		

Seq. No.	53969	Seq. ID	OJ990505_03.0420.C96
Gene No.	113340	Strand	+
Start	1	End	1507
Name	OJ990505_03.0420.C96.o1.gp	Method	AAT/GAP
Start	910	End	1347
GI	2428185	Score	683
Exons	910..1347		
GI Descrip.	5852170/emb|AL117265.1|OST17804 1.0e-177 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804		

Seq. No.	53970	Seq. ID	OJ990505_03.0420.C100
Gene No.	113341	Strand	-
Start	1	End	820
Name	OJ990505_03.0420.C100.o1.np	Method	AAT/NAP
Start	1	End	820
GI	6983860	Score	612
Exons	1..820		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	53970	Seq. ID	OJ990505_03.0420.C100
Gene No.	113341	Strand	-
Start	1	End	820
Name	OJ990505_03.0420.C100.o1.gs	Method	GENSCAN
Start	39	End	713
GI	none	Score	.8
Exons	39..108, 114..312, 328..713		

Seq. No.	53970	Seq. ID	OJ990505_03.0420.C100
Gene No.	113341	Strand	-
Start	1	End	820
Name	OJ990505_03.0420.C100.o1.tm	Method	TBLASTX:Maize
Start	441	End	746
GI	none	Score	87
Exons	441..746, 616..732		

Seq. No.	53970	Seq. ID	OJ990505_03.0420.C100
Gene No.	113341	Strand	-
Start	1	End	820
Name	OJ990505_03.0420.C100.o1.tw	Method	TBLASTX:Wheat

Start	447	End	747
GI	none	Score	109
Exons	447..746, 553..747		

Seq. No.	53971	Seq. ID	OJ990505_03.0420.C101
Gene No.	113342	Strand	+
Start	232	End	1457
Name	OJ990505_03.0420.C101.o1.gs	Method	GENSCAN
Start	232	End	1115
GI	none	Score	.59
Exons	232..343, 1057..1115		

Seq. No.	53971	Seq. ID	OJ990505_03.0420.C101
Gene No.	113342	Strand	+
Start	232	End	1457
Name	OJ990505_03.0420.C101.o1.np	Method	AAT/NAP
Start	923	End	1457
GI	7106512	Score	58
Exons	923..983, 1057..1192, 1401..1457		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	53972	Seq. ID	OJ990505_03.0420.C103
Gene No.	113343	Strand	+
Start	1	End	295
Name	OJ990505_03.0420.C103.o1.np	Method	AAT/NAP
Start	1	End	292
GI	6983860	Score	473
Exons	1..292		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	53972	Seq. ID	OJ990505_03.0420.C103
Gene No.	113343	Strand	+
Start	1	End	295
Name	OJ990505_03.0420.C103.o1.gs	Method	GENSCAN
Start	77	End	295
GI	none	Score	.88
Exons	77..295		

Seq. No.	53972	Seq. ID	OJ990505_03.0420.C103
Gene No.	113344	Strand	-
Start	1	End	2089
Name	OJ990505_03.0420.C103.o1.tm	Method	TBLASTX:Maize
Start	1	End	196
GI	none	Score	190
Exons	1..147, 2..196		

Seq. No.	53972	Seq. ID	OJ990505_03.0420.C103
Gene No.	113344	Strand	-
Start	1	End	2089
Name	OJ990505_03.0420.C103.o2.np	Method	AAT/NAP
Start	1	End	2089
GI	7476123	Score	56
Exons	1..68, 571..821, 946..1555, 2062..2089		
GI Descrip.	hypothetical glycine-rich protein Rv0578c - Mycobacterium tuberculosis (strain H37RV) gi|2909637|emb|CAA17449.1|		

(AL021942) PE_PGRS [Mycobacterium tuberculosis]

Seq. No.	53972	Seq. ID	OJ990505_03.0420.C103
Gene No.	113344	Strand	-
Start	1	End	2089
Name	OJ990505_03.0420.C103.o1.tw	Method	TBLASTX:Wheat
Start	2	End	196
GI	none	Score	205
Exons	2..196, 10..195		

Seq. No.	53972	Seq. ID	OJ990505_03.0420.C103
Gene No.	113344	Strand	-
Start	1	End	2089
Name	OJ990505_03.0420.C103.o2.gs	Method	GENSCAN
Start	744	End	1425
GI	none	Score	.97
Exons	744..1051, 1311..1425		

Seq. No.	53973	Seq. ID	OJ990505_03.0420.C110
Gene No.	113345	Strand	-
Start	128	End	688
Name	OJ990505_03.0420.C110.o1.gs	Method	GENSCAN
Start	128	End	688
GI	none	Score	.58
Exons	128..205, 356..688		

Seq. No.	53974	Seq. ID	OJ990505_03.0420.C111
Gene No.	113346	Strand	+
Start	1	End	183
Name	OJ990505_03.0420.C111.o1.np	Method	AAT/NAP
Start	1	End	183
GI	4680186	Score	332
Exons	1..183		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	53974	Seq. ID	OJ990505_03.0420.C111
Gene No.	113347	Strand	+
Start	1040	End	1195
Name	OJ990505_03.0420.C111.o2.np	Method	AAT/NAP
Start	1040	End	1195
GI	4680185	Score	202
Exons	1040..1195		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	53974	Seq. ID	OJ990505_03.0420.C111
Gene No.	113348	Strand	-
Start	1	End	116
Name	OJ990505_03.0420.C111.o1.gp	Method	AAT/GAP
Start	1	End	116
GI	uC-osf1cyp033a04b1	Score	220
Exons	1..116		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	53974	Seq. ID	OJ990505_03.0420.C111
Gene No.	113349	Strand	-
Start	546	End	1099

Name	OJ990505_03.0420.C111.o1.gs	Method	GENSCAN
Start	546	End	1099
GI	none	Score	.53
Exons	546..631, 928..1099		

Seq. No.	53975	Seq. ID	OJ990505_03.0420.C112
Gene No.	113350	Strand	-
Start	15	End	836
Name	OJ990505_03.0420.C112.o1.gs	Method	GENSCAN
Start	15	End	767
GI	none	Score	.94
Exons	15..767		

Seq. No.	53975	Seq. ID	OJ990505_03.0420.C112
Gene No.	113350	Strand	-
Start	15	End	836
Name	OJ990505_03.0420.C112.o1.np	Method	AAT/NAP
Start	18	End	836
GI	6983860	Score	1216
Exons	18..836		
GI Descrip.	(AP001168) Similar to 22 kDa kafirin cluster; Ty3-Gypsy type (AF061282) [Oryza sativa]		

Seq. No.	53975	Seq. ID	OJ990505_03.0420.C112
Gene No.	113350	Strand	-
Start	15	End	836
Name	OJ990505_03.0420.C112.o2.tw	Method	TBLASTX:Wheat
Start	63	End	396
GI	none	Score	113
Exons	63..395, 84..392, 127..396		

Seq. No.	53975	Seq. ID	OJ990505_03.0420.C112
Gene No.	113350	Strand	-
Start	15	End	836
Name	OJ990505_03.0420.C112.o1.tm	Method	TBLASTX:Maize
Start	243	End	836
GI	none	Score	107
Exons	243..683, 258..521, 259..681, 681..836, 688..834		

Seq. No.	53975	Seq. ID	OJ990505_03.0420.C112
Gene No.	113350	Strand	-
Start	15	End	836
Name	OJ990505_03.0420.C112.o1.tw	Method	TBLASTX:Wheat
Start	396	End	834
GI	none	Score	71
Exons	396..833, 399..650, 508..834		

Seq. No.	53976	Seq. ID	OJ990505_03.0420.C115
Gene No.	113351	Strand	+
Start	1	End	1664
Name	OJ990505_03.0420.C115.o2.np	Method	AAT/NAP
Start	1	End	1664
GI	4680186	Score	380
Exons	1..71, 569..626, 1464..1664		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	53976	Seq. ID	OJ990505_03.0420.C115

Gene No.	113352	Strand	-
Start	1	End	1603
Name	OJ990505_03.0420.C115.o1.np	Method	AAT/NAP
Start	1	End	1603
GI	5032266	Score	157
Exons	1..355, 1569..1603		
GI Descrip.	(AF147265) similar to Arabidopsis thaliana putative En/Spm transposon protein (GB:AC005396)		

Seq. No.	53976	Seq. ID	OJ990505_03.0420.C115
Gene No.	113352	Strand	-
Start	1	End	1603
Name	OJ990505_03.0420.C115.o1.ts	Method	TBLASTX:Soybean
Start	30	End	352
GI	none	Score	86
Exons	30..230, 206..352		

Seq. No.	53976	Seq. ID	OJ990505_03.0420.C115
Gene No.	113352	Strand	-
Start	1	End	1603
Name	OJ990505_03.0420.C115.o1.gs	Method	GENSCAN
Start	738	End	1419
GI	none	Score	.66
Exons	738..775, 1344..1419		

Seq. No.	53976	Seq. ID	OJ990505_03.0420.C115
Gene No.	113352	Strand	-
Start	1	End	1603
Name	OJ990505_03.0420.C115.o1.gp	Method	AAT/GAP
Start	1216	End	1597
GI	uC-osflcyp033a04b1	Score	695
Exons	1216..1597		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	53977	Seq. ID	OJ990505_03.0420.C116
Gene No.	113353	Strand	-
Start	239	End	433
Name	OJ990505_03.0420.C116.o1.gs	Method	GENSCAN
Start	239	End	433
GI	none	Score	.88
Exons	239..433		

Seq. No.	53978	Seq. ID	OJ990505_03.0420.C118
Gene No.	113354	Strand	+
Start	1	End	991
Name	OJ990505_03.0420.C118.o1.np	Method	AAT/NAP
Start	1	End	991
GI	7228457	Score	1604
Exons	1..991		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	53978	Seq. ID	OJ990505_03.0420.C118
Gene No.	113354	Strand	+
Start	1	End	991

Name	OJ990505_03.0420.C118.o1.tm	Method	TBLASTX:Maize
Start	2	End	205
GI	none	Score	238
Exons	2..172, 3..185, 9..194, 56..205		

Seq. No.	53978	Seq. ID	OJ990505_03.0420.C118
Gene No.	113354	Strand	+
Start	1	End	991
Name	OJ990505_03.0420.C118.o1.tw	Method	TBLASTX:Wheat
Start	2	End	379
GI	none	Score	235
Exons	2..232, 3..221, 221..379, 223..348		

Seq. No.	53978	Seq. ID	OJ990505_03.0420.C118
Gene No.	113354	Strand	+
Start	1	End	991
Name	OJ990505_03.0420.C118.o2.tw	Method	TBLASTX:Wheat
Start	380	End	982
GI	none	Score	241
Exons	380..664, 385..663, 856..978, 857..982		

Seq. No.	53979	Seq. ID	OJ990505_03.0420.C119
Gene No.	113355	Strand	-
Start	1	End	1168
Name	OJ990505_03.0420.C119.o1.np	Method	AAT/NAP
Start	1	End	1168
GI	6907089	Score	1199
Exons	1..76, 160..1168		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	53979	Seq. ID	OJ990505_03.0420.C119
Gene No.	113355	Strand	-
Start	1	End	1168
Name	OJ990505_03.0420.C119.o1.gs	Method	GENSCAN
Start	89	End	1168
GI	none	Score	.62
Exons	89..357, 553..972, 1039..1168		

Seq. No.	53980	Seq. ID	OJ990505_03.0420.C123
Gene No.	113356	Strand	+
Start	86	End	815
Name	OJ990505_03.0420.C123.o1.gs	Method	GENSCAN
Start	86	End	763
GI	none	Score	.52
Exons	86..558, 674..763		

Seq. No.	53980	Seq. ID	OJ990505_03.0420.C123
Gene No.	113356	Strand	+
Start	86	End	815
Name	OJ990505_03.0420.C123.o1.np	Method	AAT/NAP
Start	250	End	815
GI	6721515	Score	117
Exons	250..501, 686..815		
GI Descrip.	(AP001072) Similar to mudrA. (M76978) [Oryza sativa]		

Seq. No.	53981	Seq. ID	OJ990505_03.0420.C124
Gene No.	113357	Strand	+

Start	1	End	1642
Name	OJ990505_03.0420.C124.o1.np	Method	AAT/NAP
Start	1	End	531
GI	4680209	Score	158
Exons	1..222, 361..531		
GI Descrip.	(AF114171) unknown [Sorghum bicolor]		

Seq. No.	53981	Seq. ID	OJ990505_03.0420.C124
Gene No.	113357	Strand	+
Start	1	End	1642
Name	OJ990505_03.0420.C124.o2.np	Method	AAT/NAP
Start	1	End	747
GI	6721515	Score	201
Exons	1..67, 298..747		
GI Descrip.	(AP001072) Similar to mudrA. (M76978) [Oryza sativa]		

Seq. No.	53981	Seq. ID	OJ990505_03.0420.C124
Gene No.	113357	Strand	+
Start	1	End	1642
Name	OJ990505_03.0420.C124.o1.gs	Method	GENSCAN
Start	68	End	1642
GI	none	Score	.73
Exons	68..425, 538..847, 1093..1194, 1417..1642		

Seq. No.	53981	Seq. ID	OJ990505_03.0420.C124
Gene No.	113358	Strand	-
Start	2712	End	2743
Name	OJ990505_03.0420.C124.o1.tm	Method	TBLASTX:Maize
Start	14	End	746
GI	none	Score	281
Exons	14..364, 20..475, 166..462, 419..520, 460..519, 552..746, 558..659		

Seq. No.	53981	Seq. ID	OJ990505_03.0420.C124
Gene No.	113358	Strand	-
Start	2712	End	2743
Name	OJ990505_03.0420.C124.o2.gs	Method	GENSCAN
Start	2712	End	2743
GI	none	Score	.89
Exons	2712..2743		

Seq. No.	53982	Seq. ID	OJ990505_03.0420.C125
Gene No.	113359	Strand	+
Start	271	End	751
Name	OJ990505_03.0420.C125.o1.gs	Method	GENSCAN
Start	271	End	751
GI	none	Score	.94
Exons	271..386, 638..751		

Seq. No.	53982	Seq. ID	OJ990505_03.0420.C125
Gene No.	113360	Strand	-
Start	2056	End	2928
Name	OJ990505_03.0420.C125.o1.ts	Method	TBLASTX:Soybean
Start	181	End	2917
GI	none	Score	89
Exons	181..312, 581..721, 586..738, 586..825, 590..823, 753..827, 787..825, 1289..1399, 2083..2199, 2279..2371, 2372..2500,		

2693..2917

Seq. No.	53982	Seq. ID	OJ990505_03.0420.C125
Gene No.	113360	Strand	-
Start	2056	End	2928
Name	OJ990505_03.0420.C125.o1.tm	Method	TBLASTX:Maize
Start	218	End	2900
GI	none	Score	63
Exons	218..256, 218..256, 259..342, 265..312, 585..827, 586..825, 593..835, 828..902, 832..891, 1011..1073, 1289..1387, 1305..1388, 2074..2199, 2096..2224, 2315..2380, 2319..2396, 2378..2503, 2379..2501, 2669..2899, 2690..2890, 2763..2900		

Seq. No.	53982	Seq. ID	OJ990505_03.0420.C125
Gene No.	113360	Strand	-
Start	2056	End	2928
Name	OJ990505_03.0420.C125.o2.gs	Method	GENSCAN
Start	2056	End	2914
GI	none	Score	.92
Exons	2056..2198, 2320..2503, 2684..2914		

Seq. No.	53982	Seq. ID	OJ990505_03.0420.C125
Gene No.	113360	Strand	-
Start	2056	End	2928
Name	OJ990505_03.0420.C125.o1.np	Method	AAT/NAP
Start	2059	End	2928
GI	6006799	Score	325
Exons	2059..2198, 2320..2503, 2684..2928		
GI Descrip.	(AF156782) nod factor binding lectin-nucleotide phosphohydrolase [Medicago sativa]		

Seq. No.	53982	Seq. ID	OJ990505_03.0420.C125
Gene No.	113360	Strand	-
Start	2056	End	2928
Name	OJ990505_03.0420.C125.o2.np	Method	AAT/NAP
Start	2059	End	2928
GI	6006797	Score	343
Exons	2059..2198, 2320..2505, 2686..2928		
GI Descrip.	(AF156781) apyrase [Dolichos biflorus]		

Seq. No.	53983	Seq. ID	OJ990505_03.0420.C127
Gene No.	113361	Strand	+
Start	1	End	723
Name	OJ990505_03.0420.C127.o1.np	Method	AAT/NAP
Start	1	End	537
GI	6002631	Score	232
Exons	1..239, 428..537		
GI Descrip.	(AF093604) apyrase [Arabidopsis thaliana] gi|6721177|gb|AAF26805.1|AC016829_29 (AC016829) apyrase (Atapy1) [Arabidopsis thaliana]		

Seq. No.	53983	Seq. ID	OJ990505_03.0420.C127
Gene No.	113361	Strand	+
Start	1	End	723
Name	OJ990505_03.0420.C127.o1.gp	Method	AAT/GAP
Start	51	End	723
GI	4715163	Score	852

Exons	51..239, 428..723		
GI Descrip.	6002631/gb|AAF00071.1|AF093604_1 1.0e-23 (AF093604) apyrase [Arabidopsis thaliana]		
Seq. No.	53983	Seq. ID	OJ990505_03.0420.C127
Gene No.	113361	Strand	+
Start	1	End	723
Name	OJ990505_03.0420.C127.o1.tm	Method	TBLASTX:Maize
Start	53	End	552
GI	none	Score	146
Exons	53..181, 55..180, 163..240, 179..241, 426..548, 427..552		
Seq. No.	53983	Seq. ID	OJ990505_03.0420.C127
Gene No.	113361	Strand	+
Start	1	End	723
Name	OJ990505_03.0420.C127.o1.gs	Method	GENSCAN
Start	73	End	564
GI	none	Score	.78
Exons	73..239, 428..564		
Seq. No.	53984	Seq. ID	OJ990505_03.0420.C130
Gene No.	113362	Strand	+
Start	803	End	887
Name	OJ990505_03.0420.C130.o1.np	Method	AAT/NAP
Start	803	End	887
GI	6721547	Score	92
Exons	803..887		
GI Descrip.	(AP001073) Similar to Oryza sativa gene for Pib. (AB013448)		
Seq. No.	53985	Seq. ID	OJ990325_08.0419.C1
Gene No.	113363	Strand	+
Start	350	End	468
Name	OJ990325_08.0419.C1.o1.gp	Method	AAT/GAP
Start	350	End	468
GI	LIB3431-021-P1-K1-B10	Score	170
Exons	350..468		
GI Descrip.	'3377805 1.0e-39 (AF075597) contains similarity to several apoptosis or programmed cell death proteins such as rat apoptosis protein RP-8 (GB:M80601) [Arabidopsis thaliana] >gi_3912928_gb_AAC78712.1_ (AF001308) putative zinc finger protein [Arabidopsis thaliana]'		
Seq. No.	53985	Seq. ID	OJ990325_08.0419.C1
Gene No.	113364	Strand	-
Start	335	End	1270
Name	OJ990325_08.0419.C1.o1.np	Method	AAT/NAP
Start	335	End	1270
GI	7488433	Score	305
Exons	335..455, 528..661, 750..833, 939..1270		
GI Descrip.	zinc finger protein homolog T10M13.22 - Arabidopsis thaliana gi|3377805|gb|AAC28178.1| (AF075597) contains similarity to several apoptosis or programmed cell death proteins such as rat apoptosis protein RP-8 (GB:M80601) [Arabidopsis thaliana] gi|3912928|gb|AAC78712.1| (AF001308) putative zinc finger protein [Arabidopsis thaliana] gi|7268982|emb|CAB80715.1| (AL161494) putati		

Seq. No.	53985	Seq. ID	OJ990325_08.0419.C1
Gene No.	113364	Strand	-
Start	335	End	1270
Name	OJ990325_08.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	335	End	1221
GI	none	Score	129
Exons	335..457, 336..458, 349..462, 360..458, 528..656, 528..662, 529..663, 530..667, 741..839, 747..833, 751..834, 927..974, 928..984, 938..982, 991..1044, 1033..1206, 1101..1220, 1102..1221		

Seq. No.	53985	Seq. ID	OJ990325_08.0419.C1
Gene No.	113364	Strand	-
Start	335	End	1270
Name	OJ990325_08.0419.C1.o1.gs	Method	GENSCAN
Start	358	End	1238
GI	none	Score	.7
Exons	358..493, 750..833, 939..957, 1024..1238		

Seq. No.	53985	Seq. ID	OJ990325_08.0419.C1
Gene No.	113364	Strand	-
Start	335	End	1270
Name	OJ990325_08.0419.C1.o1.ts	Method	TBLASTX:Soybean
Start	380	End	974
GI	none	Score	59
Exons	380..457, 384..458, 513..644, 530..643, 741..833, 760..834, 927..974		

Seq. No.	53985	Seq. ID	OJ990325_08.0419.C1
Gene No.	113364	Strand	-
Start	335	End	1270
Name	OJ990325_08.0419.C1.o2.gp	Method	AAT/GAP
Start	1033	End	1220
GI	none	Score	296
Exons	1033..1220		

Seq. No.	53986	Seq. ID	OJ990325_08.0419.C2
Gene No.	113365	Strand	+
Start	1	End	4143
Name	OJ990325_08.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	3356
GI	6635236	Score	348
Exons	1..1062, 3168..3356		
GI Descrip.	(AB029327) elicitor-inducible receptor-like protein EIR [Nicotiana tabacum]		

Seq. No.	53986	Seq. ID	OJ990325_08.0419.C2
Gene No.	113365	Strand	+
Start	1	End	4143
Name	OJ990325_08.0419.C2.o1.gs	Method	GENSCAN
Start	188	End	4143
GI	none	Score	.56
Exons	188..342, 1430..1541, 2302..2442, 3900..4143		

Seq. No.	53986	Seq. ID	OJ990325_08.0419.C2
Gene No.	113365	Strand	+
Start	1	End	4143

Name	OJ990325_08.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	279	End	931
GI	none	Score	62
Exons	279..404, 282..404, 348..404, 485..745, 485..766, 494..769, 800..931, 833..931, 835..924,	356..406, 565..765, 839..928	484..765, 485..766, 635..769, 737..838,

Seq. No.	53986	Seq. ID	OJ990325_08.0419.C2
Gene No.	113365	Strand	+
Start	1	End	4143
Name	OJ990325_08.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	299	End	931
GI	none	Score	47
Exons	299..403, 317..403, 366..404, 485..769, 485..691, 485..769, 503..847, 512..769, 512..766, 733..783, 737..835, 809..925,	466..630, 485..568, 503..841, 523..693, 833..931,	485..766, 485..772, 494..814, 538..705, 853..906

Seq. No.	53986	Seq. ID	OJ990325_08.0419.C2
Gene No.	113365	Strand	+
Start	1	End	4143
Name	OJ990325_08.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	485	End	835
GI	none	Score	216
Exons	485..766, 485..766, 485..763, 598..765, 665..766, 764..835	485..721,	524..766, 529..693,

Seq. No.	53987	Seq. ID	OJ990325_08.0419.C7
Gene No.	113366	Strand	+
Start	1064	End	1417
Name	OJ990325_08.0419.C7.o1.gp	Method	AAT/GAP
Start	1064	End	1417
GI	none	Score	553
Exons	1064..1417		

Seq. No.	53988	Seq. ID	OJ990325_08.0419.C8
Gene No.	113367	Strand	+
Start	581	End	657
Name	OJ990325_08.0419.C8.o1.gs	Method	GENSCAN
Start	581	End	657
GI	none	Score	.64
Exons	581..657		

Seq. No.	53989	Seq. ID	OJ990325_08.0419.C9
Gene No.	113368	Strand	+
Start	123	End	300
Name	OJ990325_08.0419.C9.o1.gs	Method	GENSCAN
Start	123	End	300
GI	none	Score	.54
Exons	123..300		

Seq. No.	53989	Seq. ID	OJ990325_08.0419.C9
Gene No.	113369	Strand	-
Start	796	End	1820
Name	OJ990325_08.0419.C9.o2.gs	Method	GENSCAN
Start	796	End	1820
GI	none	Score	.81

Exons	796..968, 1748..1820		
Seq. No.	53990	Seq. ID	OJ990325_08.0419.C10
Gene No.	113370	Strand	+
Start	1480	End	2608
Name	OJ990325_08.0419.C10.o1.gs	Method	GENSCAN
Start	1480	End	2442
GI	none	Score	.64
Exons	1480..2232, 2323..2442		
Seq. No.	53990	Seq. ID	OJ990325_08.0419.C10
Gene No.	113370	Strand	+
Start	1480	End	2608
Name	OJ990325_08.0419.C10.o1.np	Method	AAT/NAP
Start	1524	End	2608
GI	6705984	Score	480
Exons	1524..2396, 2479..2608		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		
Seq. No.	53990	Seq. ID	OJ990325_08.0419.C10
Gene No.	113370	Strand	+
Start	1480	End	2608
Name	OJ990325_08.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	1530	End	1713
GI	none	Score	205
Exons	1530..1712, 1531..1713		
Seq. No.	53990	Seq. ID	OJ990325_08.0419.C10
Gene No.	113370	Strand	+
Start	1480	End	2608
Name	OJ990325_08.0419.C10.o1.tw	Method	TBLASTX:Wheat
Start	1546	End	2073
GI	none	Score	394
Exons	1546..1698, 1548..2045, 1549..2073		
Seq. No.	53990	Seq. ID	OJ990325_08.0419.C10
Gene No.	113370	Strand	+
Start	1480	End	2608
Name	OJ990325_08.0419.C10.o1.ts	Method	TBLASTX:Soybean
Start	1579	End	1968
GI	none	Score	110
Exons	1579..1716, 1747..1968		
Seq. No.	53991	Seq. ID	OJ990325_08.0419.C11
Gene No.	113371	Strand	+
Start	1359	End	2658
Name	OJ990325_08.0419.C11.o1.np	Method	AAT/NAP
Start	1359	End	2658
GI	7523512	Score	74
Exons	1359..1492, 2514..2658		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		
Seq. No.	53991	Seq. ID	OJ990325_08.0419.C11
Gene No.	113372	Strand	-
Start	429	End	1615
Name	OJ990325_08.0419.C11.o1.gs	Method	GENSCAN
Start	429	End	1615

GI	none	Score	.73
Exons	429..623, 1361..1455, 1501..1615		

Seq. No.	53992	Seq. ID	OJ990325_08.0419.C13
Gene No.	113373	Strand	+
Start	993	End	1143
Name	OJ990325_08.0419.C13.o1.gp	Method	AAT/GAP
Start	993	End	1143
GI	21474_1.R1084	Score	246
Exons	993..1143		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	53992	Seq. ID	OJ990325_08.0419.C13
Gene No.	113374	Strand	-
Start	1487	End	5375
Name	OJ990325_08.0419.C13.o1.gs	Method	GENSCAN
Start	1487	End	4838
GI	none	Score	.72
Exons	1487..1672, 1752..1850, 1945..2017, 2102..2212, 2309..2482, 2592..3277, 3279..3421, 3547..3688, 3763..4563, 4610..4838		

Seq. No.	53992	Seq. ID	OJ990325_08.0419.C13
Gene No.	113374	Strand	-
Start	1487	End	5375
Name	OJ990325_08.0419.C13.o1.np	Method	AAT/NAP
Start	1505	End	5375
GI	4680204	Score	936
Exons	1505..1642, 1993..2212, 2309..2482, 2592..3688, 3763..4934, 5241..5375		
GI Descrip.	(AF114171) hypothetical protein [Sorghum bicolor]		

Seq. No.	53992	Seq. ID	OJ990325_08.0419.C13
Gene No.	113374	Strand	-
Start	1487	End	5375
Name	OJ990325_08.0419.C13.o2.tw	Method	TBLASTX:Wheat
Start	2143	End	2665
GI	none	Score	68
Exons	2143..2214, 2314..2496, 2321..2446, 2585..2665		

Seq. No.	53992	Seq. ID	OJ990325_08.0419.C13
Gene No.	113374	Strand	-
Start	1487	End	5375
Name	OJ990325_08.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	4153	End	4556
GI	none	Score	84
Exons	4153..4323, 4286..4453, 4318..4554, 4405..4554, 4416..4556, 4446..4556		

Seq. No.	53993	Seq. ID	OJ990325_08.0419.C16
Gene No.	113375	Strand	-
Start	390	End	1082
Name	OJ990325_08.0419.C16.o1.gs	Method	GENSCAN
Start	390	End	1082
GI	none	Score	.87
Exons	390..587, 786..1082		

Seq. No.	53994	Seq. ID	OJ990325_08.0419.C17
Gene No.	113376	Strand	-
Start	515	End	776
Name	OJ990325_08.0419.C17.o1.gs	Method	GENSCAN
Start	515	End	776
GI	none	Score	.79
Exons	515..776		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113377	Strand	+
Start	750	End	1204
Name	OJ990325_08.0419.C19.o2.gp	Method	AAT/GAP
Start	750	End	1204
GI	36280_1.R1084	Score	814
Exons	750..1204		
GI Descrip.	'5295971/dbj|BAA81872.1| 1.0e-81 (AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]'		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o1.np	Method	AAT/NAP
Start	376	End	5166
GI	5295971	Score	7809
Exons	376..5166		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o3.ts	Method	TBLASTX:Soybean
Start	400	End	1050
GI	none	Score	49
Exons	400..876, 533..607, 716..877, 889..1050, 932..1048		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o1.tc	Method	TBLASTX:Cress
Start	409	End	1072
GI	none	Score	91
Exons	409..627, 443..607, 646..774, 698..775, 781..1071, 782..877, 899..1072		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o4.tm	Method	TBLASTX:Maize
Start	410	End	798
GI	none	Score	401
Exons	410..796, 412..756, 412..798		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19

Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o4.tw	Method	TBLASTX:Wheat
Start	439	End	858
GI	none	Score	79
Exons	439..642, 451..633, 655..858, 698..775		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o8.tm	Method	TBLASTX:Maize
Start	799	End	984
GI	none	Score	98
Exons	799..984, 824..982		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o5.tw	Method	TBLASTX:Wheat
Start	892	End	1200
GI	none	Score	58
Exons	892..1071, 1096..1200		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o3.tm	Method	TBLASTX:Maize
Start	986	End	1377
GI	none	Score	465
Exons	986..1375, 986..1303, 988..1377, 988..1377		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o1.tw	Method	TBLASTX:Wheat
Start	1204	End	1759
GI	none	Score	59
Exons	1204..1428, 1414..1758, 1426..1506, 1652..1759		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o1.ts	Method	TBLASTX:Soybean
Start	1429	End	1926
GI	5509260	Score	120
Exons	1429..1926, 1448..1606, 1667..1846		
GI Descrip.	-		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o3.tc	Method	TBLASTX:Cress
Start	1540	End	1804
GI	none	Score	95
Exons	1540..1803, 1661..1804		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19

Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o5.tm	Method	TBLASTX:Maize
Start	1579	End	1875
GI	none	Score	197
Exons	1579..1875, 1580..1849		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o2.ts	Method	TBLASTX:Soybean
Start	2371	End	2850
GI	none	Score	82
Exons	2371..2517, 2542..2850, 2554..2814, 2558..2845		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o2.tc	Method	TBLASTX:Cress
Start	2395	End	2835
GI	none	Score	54
Exons	2395..2517, 2539..2835, 2549..2695, 2753..2785		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o2.tm	Method	TBLASTX:Maize
Start	2455	End	2877
GI	none	Score	531
Exons	2455..2877, 2458..2850		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o3.tw	Method	TBLASTX:Wheat
Start	2533	End	3084
GI	none	Score	65
Exons	2533..2613, 2620..3084, 2720..2869		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o4.ts	Method	TBLASTX:Soybean
Start	2938	End	3219
GI	none	Score	193
Exons	2938..3219, 3043..3123		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o2.tw	Method	TBLASTX:Wheat
Start	3157	End	3610
GI	none	Score	61
Exons	3157..3249, 3157..3237, 3229..3606, 3244..3609, 3305..3610		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-

Start	376	End	5166
Name	OJ990325_08.0419.C19.o7.tm	Method	TBLASTX:Maize
Start	3280	End	3520
GI	none	Score	259
Exons	3280..3519, 3281..3520		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o1.tm	Method	TBLASTX:Maize
Start	3535	End	4254
GI	none	Score	439
Exons	3535..3900, 3539..3958, 3636..3959, 3965..3997, 3976..4254, 3980..4237		

Seq. No.	53995	Seq. ID	OJ990325_08.0419.C19
Gene No.	113378	Strand	-
Start	376	End	5166
Name	OJ990325_08.0419.C19.o6.tm	Method	TBLASTX:Maize
Start	4488	End	4779
GI	none	Score	54
Exons	4488..4529, 4489..4710, 4489..4779, 4608..4739		

Seq. No.	53996	Seq. ID	OJ990325_08.0419.C20
Gene No.	113379	Strand	+
Start	508	End	2628
Name	OJ990325_08.0419.C20.o1.np	Method	AAT/NAP
Start	508	End	2628
GI	7486416	Score	277
Exons	508..828, 2020..2098, 2578..2628		
GI Descrip.	hypothetical protein F4D11.30 - Arabidopsis thaliana gi|3063693|emb|CAA18584.1| (AL022537) putative protein [Arabidopsis thaliana] gi|7270224|emb|CAB79994.1| (AL161582) putative protein [Arabidopsis thaliana]		

Seq. No.	53996	Seq. ID	OJ990325_08.0419.C20
Gene No.	113380	Strand	-
Start	187	End	528
Name	OJ990325_08.0419.C20.o1.gs	Method	GENSCAN
Start	187	End	528
GI	none	Score	.79
Exons	187..528		

Seq. No.	53996	Seq. ID	OJ990325_08.0419.C20
Gene No.	113381	Strand	
Start	566	End	821
Name	OJ990325_08.0419.C20.o1.tm	Method	TBLASTX:Maize
Start	566	End	821
GI	none	Score	102
Exons	566..676, 580..678, 581..679, 583..690, 591..782, 720..821, 740..820		

Seq. No.	53996	Seq. ID	OJ990325_08.0419.C20
Gene No.	113381	Strand	
Start	566	End	821
Name	OJ990325_08.0419.C20.o1.tc	Method	TBLASTX:Cress
Start	583	End	821

GI	none	Score	144
Exons	583..690, 583..678, 591..689, 729..821, 734..796		
Seq. No.	53996	Seq. ID	OJ990325_08.0419.C20
Gene No.	113381	Strand	
Start	566	End	821
Name	OJ990325_08.0419.C20.o1.ts	Method	TBLASTX:Soybean
Start	583	End	797
GI	none	Score	147
Exons	583..675, 591..674, 611..796, 732..797		
Seq. No.	53997	Seq. ID	OJ990325_08.0419.C21
Gene No.	113382	Strand	+
Start	12	End	6969
Name	OJ990325_08.0419.C21.o1.gs	Method	GENSCAN
Start	12	End	6957
GI	none	Score	.65
Exons	12..57, 250..276, 2462..2602, 3049..3146, 3915..4019, 4861..4977, 5282..5431, 6529..6694, 6791..6957		
Seq. No.	53997	Seq. ID	OJ990325_08.0419.C21
Gene No.	113382	Strand	+
Start	12	End	6969
Name	OJ990325_08.0419.C21.o1.tm	Method	TBLASTX:Maize
Start	906	End	3111
GI	none	Score	81
Exons	906..1019, 937..1017, 941..1030, 2426..2518, 2430..2624, 2431..2604, 3045..3104, 3046..3111, 3047..3106		
Seq. No.	53997	Seq. ID	OJ990325_08.0419.C21
Gene No.	113382	Strand	+
Start	12	End	6969
Name	OJ990325_08.0419.C21.o1.ts	Method	TBLASTX:Soybean
Start	936	End	3101
GI	none	Score	74
Exons	936..1019, 937..1017, 941..1033, 2430..2627, 2431..2601, 3045..3101		
Seq. No.	53997	Seq. ID	OJ990325_08.0419.C21
Gene No.	113382	Strand	+
Start	12	End	6969
Name	OJ990325_08.0419.C21.o1.gp	Method	AAT/GAP
Start	941	End	2552
GI	43028_1.R1084	Score	336
Exons	941..1017, 2433..2552		
GI Descrip.	'3063693/emb|CAA18584.1| 1.0e-31 (AL022537) putative protein [Arabidopsis thaliana]'		
Seq. No.	53997	Seq. ID	OJ990325_08.0419.C21
Gene No.	113382	Strand	+
Start	12	End	6969
Name	OJ990325_08.0419.C21.o1.np	Method	AAT/NAP
Start	941	End	6699
GI	7486416	Score	901
Exons	941..1017, 2433..2602, 3049..3146, 3915..4019, 4861..4977, 5282..5455, 6481..6699		
GI Descrip.	hypothetical protein F4D11.30 - Arabidopsis thaliana		

gi|3063693|emb|CAA18584.1| (AL022537) putative protein [Arabidopsis thaliana] gi|7270224|emb|CAB79994.1| (AL161582) putative protein [Arabidopsis thaliana]

Seq. No.	53997	Seq. ID	OJ990325_08.0419.C21
Gene No.	113382	Strand	+
Start	12	End	6969
Name	OJ990325_08.0419.C21.o2.tm	Method	TBLASTX:Maize
Start	3954	End	6702
GI	none	Score	105
Exons	3954..4022, 3959..4018, 4859..4981, 4860..4979, 4861..4986, 5274..5426, 5275..5430, 5281..5457, 5282..5440, 6526..6702, 6526..6690, 6528..6701		

Seq. No.	53997	Seq. ID	OJ990325_08.0419.C21
Gene No.	113382	Strand	+
Start	12	End	6969
Name	OJ990325_08.0419.C21.o2.gp	Method	AAT/GAP
Start	4906	End	6969
GI	3767743	Score	1214
Exons	4906..4977, 5282..5431, 6529..6969		
GI Descrip.	3063693/emb|CAA18584.1| 1.0e-31 (AL022537) putative protein [Arabidopsis thaliana]		

Seq. No.	53998	Seq. ID	OJ990325_08.0419.C23
Gene No.	113383	Strand	-
Start	1	End	775
Name	OJ990325_08.0419.C23.o1.np	Method	AAT/NAP
Start	1	End	775
GI	6997177	Score	287
Exons	1..275, 464..775		
GI Descrip.	(AC023839) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	53999	Seq. ID	OJ990325_08.0419.C25
Gene No.	113384	Strand	-
Start	377	End	1354
Name	OJ990325_08.0419.C25.o1.gs	Method	GENSCAN
Start	377	End	1291
GI	none	Score	.44
Exons	377..400, 437..597, 1177..1291		

Seq. No.	53999	Seq. ID	OJ990325_08.0419.C25
Gene No.	113384	Strand	-
Start	377	End	1354
Name	OJ990325_08.0419.C25.o1.np	Method	AAT/NAP
Start	442	End	1354
GI	7488433	Score	276
Exons	442..597, 1177..1354		
GI Descrip.	zinc finger protein homolog T10M13.22 - Arabidopsis thaliana gi|3377805|gb|AAC28178.1| (AF075597) contains similarity to several apoptosis or programmed cell death proteins such as rat apoptosis protein RP-8 (GB:M80601) [Arabidopsis thaliana] gi|3912928|gb|AAC78712.1| (AF001308) putative zinc finger protein [Arabidopsis thaliana] gi|7268982|emb|CAB80715.1| (AL161494) putati		

Seq. No.	53999	Seq. ID	OJ990325_08.0419.C25

Gene No.	113384	Strand	-
Start	377	End	1354
Name	OJ990325_08.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	508	End	1297
GI	none	Score	62
Exons	508..609, 509..595, 510..638, 514..606, 1174..1293, 1175..1297, 1175..1297		

Seq. No.	54000	Seq. ID	OJ990325_08.0419.C26
Gene No.	113385	Strand	-
Start	1092	End	1677
Name	OJ990325_08.0419.C26.o1.gp	Method	AAT/GAP
Start	1092	End	1677
GI	19573_1.R1084	Score	424
Exons	1092..1210, 1530..1677		
GI Descrip.	'3450842 1.0e-15 (AF080436) mitogen activated protein kinase kinase [Oryza sativa]'		

Seq. No.	54000	Seq. ID	OJ990325_08.0419.C26
Gene No.	113385	Strand	-
Start	1092	End	1677
Name	OJ990325_08.0419.C26.o1.gs	Method	GENSCAN
Start	1094	End	1595
GI	none	Score	.8
Exons	1094..1210, 1530..1595		

Seq. No.	54001	Seq. ID	OJ990325_08.0419.C27
Gene No.	113386	Strand	+
Start	201	End	1189
Name	OJ990325_08.0419.C27.o1.gp	Method	AAT/GAP
Start	201	End	1189
GI	59306_1.R1084	Score	843
Exons	201..313, 807..1189		
GI Descrip.	'5706504/emb|CAB52266.1| 1.0e-21 (AL109739) hypothetical protein [Schizosaccharomyces pombe]'		

Seq. No.	54001	Seq. ID	OJ990325_08.0419.C27
Gene No.	113386	Strand	+
Start	201	End	1189
Name	OJ990325_08.0419.C27.o1.np	Method	AAT/NAP
Start	815	End	1069
GI	6624908	Score	324
Exons	815..1069		
GI Descrip.	(AJ251510) putative APC11 anaphase-promoting complex subunit [Drosophila melanogaster]		

Seq. No.	54001	Seq. ID	OJ990325_08.0419.C27
Gene No.	113387	Strand	-
Start	170	End	1086
Name	OJ990325_08.0419.C27.o1.gs	Method	GENSCAN
Start	170	End	982
GI	none	Score	.55
Exons	170..552, 811..982		

Seq. No.	54001	Seq. ID	OJ990325_08.0419.C27
Gene No.	113387	Strand	-
Start	170	End	1086

Name	OJ990325_08.0419.C27.o1.ts	Method	TBLASTX:Soybean
Start	786	End	1086
GI	none	Score	115
Exons	786..1058, 805..1065, 806..1069, 955..1086		

Seq. No.	54001	Seq. ID	OJ990325_08.0419.C27
Gene No.	113387	Strand	-
Start	170	End	1086
Name	OJ990325_08.0419.C27.o1.tm	Method	TBLASTX:Maize
Start	801	End	1069
GI	none	Score	109
Exons	801..1046, 802..900, 804..1067, 805..1068, 806..1069, 806..1069		

Seq. No.	54002	Seq. ID	OJ990325_08.0419.C28
Gene No.	113388	Strand	+
Start	1	End	817
Name	OJ990325_08.0419.C28.o1.np	Method	AAT/NAP
Start	1	End	134
GI	7228438	Score	82
Exons	1..134		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	54002	Seq. ID	OJ990325_08.0419.C28
Gene No.	113388	Strand	+
Start	1	End	817
Name	OJ990325_08.0419.C28.o2.np	Method	AAT/NAP
Start	1	End	701
GI	5441880	Score	447
Exons	1..129, 220..351, 468..701		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	54002	Seq. ID	OJ990325_08.0419.C28
Gene No.	113388	Strand	+
Start	1	End	817
Name	OJ990325_08.0419.C28.o1.gs	Method	GENSCAN
Start	220	End	817
GI	none	Score	.78
Exons	220..351, 468..585, 629..817		

Seq. No.	54003	Seq. ID	OJ990325_08.0419.C29
Gene No.	113389	Strand	+
Start	73	End	252
Name	OJ990325_08.0419.C29.o1.gs	Method	GENSCAN
Start	73	End	252
GI	none	Score	.77
Exons	73..252		

Seq. No.	54004	Seq. ID	OJ990325_08.0419.C30
Gene No.	113390	Strand	+
Start	1	End	1454
Name	OJ990325_08.0419.C30.o1.np	Method	AAT/NAP
Start	1	End	1454
GI	6997177	Score	320

Exons	1..25, 191..613, 1302..1454		
GI Descrip.	(AC023839) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	54004	Seq. ID	OJ990325_08.0419.C30
Gene No.	113391	Strand	-
Start	271	End	2931
Name	OJ990325_08.0419.C30.o1.tm	Method	TBLASTX:Maize
Start	190	End	590
GI	none	Score	223
Exons	190..405, 525..590		
Seq. No.	54004	Seq. ID	OJ990325_08.0419.C30
Gene No.	113391	Strand	-
Start	271	End	2931
Name	OJ990325_08.0419.C30.o1.tw	Method	TBLASTX:Wheat
Start	190	End	578
GI	none	Score	152
Exons	190..348, 201..332, 202..351, 352..405, 411..578		
Seq. No.	54004	Seq. ID	OJ990325_08.0419.C30
Gene No.	113391	Strand	-
Start	271	End	2931
Name	OJ990325_08.0419.C30.o2.np	Method	AAT/NAP
Start	200	End	2931
GI	6498436	Score	421
Exons	200..237, 1472..1653, 1896..2020, 2120..2625, 2674..2733, 2790..2931		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		
Seq. No.	54004	Seq. ID	OJ990325_08.0419.C30
Gene No.	113391	Strand	-
Start	271	End	2931
Name	OJ990325_08.0419.C30.o1.gs	Method	GENSCAN
Start	271	End	2761
GI	none	Score	.73
Exons	271..307, 447..590, 971..1187, 1401..1677, 1896..2191, 2674..2761		
Seq. No.	54005	Seq. ID	OJ990325_08.0419.C31
Gene No.	113392	Strand	-
Start	3153	End	5990
Name	OJ990325_08.0419.C31.o1.gp	Method	AAT/GAP
Start	3009	End	5825
GI	5005398	Score	1293
Exons	3009..3217, 3906..4022, 4358..4589, 5585..5704, 5784..5825		
GI Descrip.	2648379 6.0e-11 (AE000956) isochorismatase (entB) [Archaeoglobus fulgidus]		
Seq. No.	54005	Seq. ID	OJ990325_08.0419.C31
Gene No.	113392	Strand	-
Start	3153	End	5990
Name	OJ990325_08.0419.C31.o1.gs	Method	GENSCAN
Start	3153	End	5990
GI	none	Score	.91
Exons	3153..3217, 3906..4022, 4358..4589, 5272..5478, 5585..5704, 5784..5990		

Seq. No.	54005	Seq. ID	OJ990325_08.0419.C31
Gene No.	113392	Strand	-
Start	3153	End	5990
Name	OJ990325_08.0419.C31.o1.ts	Method	TBLASTX:Soybean
Start	3162	End	5909
GI	none	Score	116
Exons	3162..3218, 3907..4023, 3908..4024, 4347..4514, 4356..4544, 4357..4563, 4518..4589, 4543..4590, 5582..5674, 5784..5909		

Seq. No.	54005	Seq. ID	OJ990325_08.0419.C31
Gene No.	113392	Strand	-
Start	3153	End	5990
Name	OJ990325_08.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	3177	End	5955
GI	none	Score	152
Exons	3177..3218, 3907..4020, 3907..4026, 3908..4024, 4346..4456, 4356..4589, 4356..4589, 4357..4596, 4357..4596, 5582..5689, 5583..5690, 5675..5707, 5676..5714, 5680..5709, 5784..5804, 5784..5822, 5785..5826, 5896..5955		

Seq. No.	54005	Seq. ID	OJ990325_08.0419.C31
Gene No.	113392	Strand	-
Start	3153	End	5990
Name	OJ990325_08.0419.C31.o1.np	Method	AAT/NAP
Start	3806	End	4507
GI	4062565	Score	69
Exons	3806..4022, 4358..4507		
GI Descrip.	(D90737) Hypothetical protein [Escherichia coli]		

Seq. No.	54006	Seq. ID	OJ990325_08.0419.C32
Gene No.	113393	Strand	-
Start	72	End	167
Name	OJ990325_08.0419.C32.o1.gs	Method	GENSCAN
Start	72	End	167
GI	none	Score	.61
Exons	72..167		

Seq. No.	54007	Seq. ID	OJ990325_08.0419.C33
Gene No.	113394	Strand	-
Start	127	End	1361
Name	OJ990325_08.0419.C33.o2.tc	Method	TBLASTX:Cress
Start	122	End	380
GI	none	Score	61
Exons	122..244, 136..270, 164..256, 338..379, 339..380		

Seq. No.	54007	Seq. ID	OJ990325_08.0419.C33
Gene No.	113394	Strand	-
Start	127	End	1361
Name	OJ990325_08.0419.C33.o2.ts	Method	TBLASTX:Soybean
Start	122	End	439
GI	none	Score	87
Exons	122..253, 136..270, 158..256, 231..284, 338..439, 339..431, 353..439		

Seq. No.	54007	Seq. ID	OJ990325_08.0419.C33
Gene No.	113394	Strand	-
Start	127	End	1361

Name	OJ990325_08.0419.C33.o1.gs	Method	GENSCAN
Start	127	End	1361
GI	none	Score	.42
Exons	127..252, 424..448, 555..770, 872..1002, 1053..1361		

Seq. No.	54007	Seq. ID	OJ990325_08.0419.C33
Gene No.	113394	Strand	-
Start	127	End	1361
Name	OJ990325_08.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	127	End	1025
GI	none	Score	108
Exons	127..246, 132..263, 134..253, 136..270, 338..448, 339..449, 342..449, 343..450, 353..451, 552..596, 552..587, 553..588, 590..631, 591..632, 619..771, 626..703, 865..903, 867..905, 898..966, 899..967, 966..1025, 967..1023, 972..1025		

Seq. No.	54007	Seq. ID	OJ990325_08.0419.C33
Gene No.	113394	Strand	-
Start	127	End	1361
Name	OJ990325_08.0419.C33.o1.np	Method	AAT/NAP
Start	127	End	1358
GI	3249105	Score	840
Exons	127..252, 341..448, 555..770, 872..1043, 1149..1358		
GI Descrip.	(AC003114) Contains similarity to protein phosphatase 2C (ABI1) gb|X78886 from A. thaliana. [Arabidopsis thaliana]		

Seq. No.	54007	Seq. ID	OJ990325_08.0419.C33
Gene No.	113394	Strand	-
Start	127	End	1361
Name	OJ990325_08.0419.C33.o1.tw	Method	TBLASTX:Wheat
Start	134	End	446
GI	none	Score	89
Exons	134..253, 136..270, 158..256, 159..284, 338..445, 339..446		

Seq. No.	54007	Seq. ID	OJ990325_08.0419.C33
Gene No.	113394	Strand	-
Start	127	End	1361
Name	OJ990325_08.0419.C33.o1.ts	Method	TBLASTX:Soybean
Start	596	End	1325
GI	none	Score	67
Exons	596..631, 619..771, 620..703, 865..906, 867..905, 871..966, 905..967, 966..1055, 970..1053, 1149..1325, 1150..1254		

Seq. No.	54007	Seq. ID	OJ990325_08.0419.C33
Gene No.	113394	Strand	-
Start	127	End	1361
Name	OJ990325_08.0419.C33.o1.tc	Method	TBLASTX:Cress
Start	919	End	1325
GI	none	Score	79
Exons	919..966, 966..1043, 970..1041, 1152..1319, 1153..1320, 1182..1325		

Seq. No.	54007	Seq. ID	OJ990325_08.0419.C33
Gene No.	113394	Strand	-
Start	127	End	1361
Name	OJ990325_08.0419.C33.o2.tm	Method	TBLASTX:Maize
Start	1149	End	1355

GI	none	Score	126
Exons	1149..1355, 1150..1251, 1188..1352		

Seq. No.	54008	Seq. ID	OJ990325_08.0419.C34
Gene No.	113395	Strand	-
Start	352	End	3570
Name	OJ990325_08.0419.C34.o1.gs	Method	GENSCAN
Start	352	End	3570
GI	none	Score	.84
Exons	352..562, 3527..3570		

Seq. No.	54009	Seq. ID	OJ990325_08.0419.C35
Gene No.	113396	Strand	+
Start	1	End	1766
Name	OJ990325_08.0419.C35.o1.np	Method	AAT/NAP
Start	1	End	1370
GI	7106528	Score	83
Exons	1..23, 1240..1370		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54009	Seq. ID	OJ990325_08.0419.C35
Gene No.	113396	Strand	+
Start	1	End	1766
Name	OJ990325_08.0419.C35.o1.gs	Method	GENSCAN
Start	463	End	1766
GI	none	Score	.73
Exons	463..611, 675..761, 1716..1766		

Seq. No.	54010	Seq. ID	OJ990325_08.0419.C36
Gene No.	113397	Strand	+
Start	165	End	590
Name	OJ990325_08.0419.C36.o1.gs	Method	GENSCAN
Start	165	End	590
GI	none	Score	.76
Exons	165..274, 438..590		

Seq. No.	54010	Seq. ID	OJ990325_08.0419.C36
Gene No.	113397	Strand	+
Start	165	End	590
Name	OJ990325_08.0419.C36.o1.np	Method	AAT/NAP
Start	399	End	584
GI	4580463	Score	107
Exons	399..584		
GI Descrip.	(AC006081) unknown protein [Arabidopsis thaliana]		

Seq. No.	54010	Seq. ID	OJ990325_08.0419.C36
Gene No.	113398	Strand	-
Start	575	End	1112
Name	OJ990325_08.0419.C36.o1.gp	Method	AAT/GAP
Start	575	End	1112
GI	none	Score	1056
Exons	575..1112		

Seq. No.	54010	Seq. ID	OJ990325_08.0419.C36
Gene No.	113399	Strand	-
Start	1941	End	2727

Name	OJ990325_08.0419.C36.o2.gs	Method	GENSCAN
Start	1941	End	2727
GI	none	Score	.8
Exons	1941..2018, 2150..2333, 2660..2727		

Seq. No.	54011	Seq. ID	OJ990325_08.0419.C37
Gene No.	113400	Strand	-
Start	1	End	3823
Name	OJ990325_08.0419.C37.o1.np	Method	AAT/NAP
Start	1	End	3823
GI	7489084	Score	616
Exons	1..57, 1127..2198, 3799..3823		
GI Descrip.	disease resistance protein Cf-2.2 - currant tomato gi|1184077|gb|AAC15780.1| (U42445) Cf-2.2 [Lycopersicon pimpinellifolium]		

Seq. No.	54011	Seq. ID	OJ990325_08.0419.C37
Gene No.	113400	Strand	-
Start	1	End	3823
Name	OJ990325_08.0419.C37.o1.gs	Method	GENSCAN
Start	265	End	2507
GI	none	Score	.82
Exons	265..574, 712..1007, 1205..1872, 2098..2507		

Seq. No.	54011	Seq. ID	OJ990325_08.0419.C37
Gene No.	113400	Strand	-
Start	1	End	3823
Name	OJ990325_08.0419.C37.o1.tc	Method	TBLASTX:Cress
Start	266	End	2228
GI	none	Score	46
Exons	266..655, 267..350, 426..656, 736..810, 1131..1859, 1131..1697, 1131..1667, 1131..1388, 1131..1676, 1192..1413, 1194..1676, 1194..1520, 1195..1350, 1197..1673, 1204..1299, 1212..1358, 1338..1676, 1410..1592, 1432..1677, 1471..1638, 1479..1673, 1480..1650, 1540..1641, 1557..1676, 1620..1859, 1648..1905, 1662..1856, 1662..1850, 1662..1856, 1665..1859, 1665..1817, 1668..1859, 1675..1791, 1677..1850, 1678..1860, 1686..1856, 1693..1785, 1747..1854, 1862..1966, 1868..1966, 1868..1948, 1869..1952, 1874..1966, 1883..1960, 1892..1954, 1892..1993, 1892..1957, 1896..1949, 2035..2097, 2044..2079, 2044..2079, 2045..2080, 2082..2228, 2082..2228, 2082..2192, 2082..2228, 2082..2165, 2082..2186, 2085..2192, 2085..2189, 2086..2139		

Seq. No.	54011	Seq. ID	OJ990325_08.0419.C37
Gene No.	113400	Strand	-
Start	1	End	3823
Name	OJ990325_08.0419.C37.o2.tm	Method	TBLASTX:Maize
Start	266	End	655
GI	none	Score	109
Exons	266..511, 267..497, 512..655		

Seq. No.	54011	Seq. ID	OJ990325_08.0419.C37
Gene No.	113400	Strand	-
Start	1	End	3823
Name	OJ990325_08.0419.C37.o1.ts	Method	TBLASTX:Soybean
Start	299	End	2150
GI	none	Score	217

Exons	299..658, 303..647, 305..649, 736..855, 742..837, 1131..1277, 1326..1433, 1341..1505, 1557..1856, 1877..1966, 2082..2150		
Seq. No.	54011	Seq. ID	OJ990325_08.0419.C37
Gene No.	113400	Strand	-
Start	1	End	3823
Name	OJ990325_08.0419.C37.o1.tw	Method	TBLASTX:Wheat
Start	299	End	649
GI	none	Score	251
Exons	299..649		
Seq. No.	54011	Seq. ID	OJ990325_08.0419.C37
Gene No.	113400	Strand	-
Start	1	End	3823
Name	OJ990325_08.0419.C37.o1.tm	Method	TBLASTX:Maize
Start	1131	End	2228
GI	none	Score	58
Exons	1131..1730, 1131..1676, 1146..1667, 1183..1284, 1212..1697, 1399..1578, 1486..1638, 1665..1814, 1668..1850, 1674..1856, 1677..1856, 1680..1856, 1716..1850, 1862..1948, 1868..1966, 1868..1948, 1868..1969, 1892..1957, 1892..1945, 2032..2079, 2082..2228, 2082..2228, 2082..2165, 2109..2174		
Seq. No.	54011	Seq. ID	OJ990325_08.0419.C37
Gene No.	113400	Strand	-
Start	1	End	3823
Name	OJ990325_08.0419.C37.o2.tw	Method	TBLASTX:Wheat
Start	1152	End	2079
GI	none	Score	54
Exons	1152..1280, 1197..1394, 1197..1349, 1431..1619, 1485..1850, 1704..1856, 1850..1966, 1883..1966, 2020..2079		
Seq. No.	54012	Seq. ID	OJ990325_08.0419.C38
Gene No.	113401	Strand	-
Start	1	End	751
Name	OJ990325_08.0419.C38.o1.np	Method	AAT/NAP
Start	1	End	751
GI	7487566	Score	320
Exons	1..57, 238..292, 377..540, 635..751		
GI Descrip.	hypothetical protein T30B22.20 - Arabidopsis thaliana gi|2529677|gb|AAC62860.1| (AC002535) putative kinesin heavy chain [Arabidopsis thaliana]		
Seq. No.	54012	Seq. ID	OJ990325_08.0419.C38
Gene No.	113401	Strand	-
Start	1	End	751
Name	OJ990325_08.0419.C38.o1.gs	Method	GENSCAN
Start	104	End	734
GI	none	Score	.84
Exons	104..292, 377..540, 635..734		
Seq. No.	54012	Seq. ID	OJ990325_08.0419.C38
Gene No.	113401	Strand	-
Start	1	End	751
Name	OJ990325_08.0419.C38.o1.tc	Method	TBLASTX:Cress
Start	353	End	749
GI	none	Score	110

Exons	353..547, 371..523, 378..542, 633..749, 634..747, 642..749		
Seq. No.	54012	Seq. ID	OJ990325_08.0419.C38
Gene No.	113401	Strand	-
Start	1	End	751
Name	OJ990325_08.0419.C38.o1.tw	Method	TBLASTX:Wheat
Start	359	End	732
GI	none	Score	52
Exons	359..481, 368..550, 375..542, 633..731, 634..732		
Seq. No.	54012	Seq. ID	OJ990325_08.0419.C38
Gene No.	113401	Strand	-
Start	1	End	751
Name	OJ990325_08.0419.C38.o1.tm	Method	TBLASTX:Maize
Start	392	End	747
GI	none	Score	107
Exons	392..550, 393..539, 636..740, 637..747		
Seq. No.	54012	Seq. ID	OJ990325_08.0419.C38
Gene No.	113401	Strand	-
Start	1	End	751
Name	OJ990325_08.0419.C38.o1.ts	Method	TBLASTX:Soybean
Start	477	End	749
GI	none	Score	70
Exons	477..551, 479..547, 633..719, 633..749, 634..738		
Seq. No.	54013	Seq. ID	OJ990325_08.0419.C39
Gene No.	113402	Strand	+
Start	57	End	198
Name	OJ990325_08.0419.C39.o1.gs	Method	GENSCAN
Start	57	End	198
GI	none	Score	.53
Exons	57..198		
Seq. No.	54014	Seq. ID	OJ990325_08.0419.C40
Gene No.	113403	Strand	+
Start	443	End	1840
Name	OJ990325_08.0419.C40.o1.gs	Method	GENSCAN
Start	443	End	1107
GI	none	Score	.5
Exons	443..505, 865..900, 1009..1107		
Seq. No.	54014	Seq. ID	OJ990325_08.0419.C40
Gene No.	113403	Strand	+
Start	443	End	1840
Name	OJ990325_08.0419.C40.o2.np	Method	AAT/NAP
Start	976	End	1840
GI	7433382	Score	81
Exons	976..1123, 1800..1840		
GI Descrip.	ferredoxin--NADP+ reductase homolog F10M6.10 - Arabidopsis thaliana gi|2864608|emb|CAA16955.1| (AL021811) ferredoxin--NADP+ reductase - like protein [Arabidopsis thaliana] gi|4049338|emb|CAA22563.1| (AL034567) ferredoxin-NADP+ reductase-like protein [Arabidopsis thaliana] gi|7270140|emb|CAB79953.1| (AL161581) ferredoxin-NADP+ reductase-like protein [Arabidopsis thaliana]		

Seq. No.	54014	Seq. ID	OJ990325_08.0419.C40
Gene No.	113404	Strand	-
Start	513	End	1821
Name	OJ990325_08.0419.C40.o1.np	Method	AAT/NAP
Start	513	End	1821
GI	5777617	Score	70
Exons	513..623, 1748..1821		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	54015	Seq. ID	OJ990325_08.0419.C41
Gene No.	113405	Strand	+
Start	114	End	744
Name	OJ990325_08.0419.C41.o1.np	Method	AAT/NAP
Start	114	End	744
GI	7487566	Score	241
Exons	114..355, 472..545, 676..744		
GI Descrip.	hypothetical protein T30B22.20 - Arabidopsis thaliana gi|2529677|gb|AAC62860.1| (AC002535) putative kinesin heavy chain [Arabidopsis thaliana]		

Seq. No.	54015	Seq. ID	OJ990325_08.0419.C41
Gene No.	113405	Strand	+
Start	114	End	744
Name	OJ990325_08.0419.C41.o1.gs	Method	GENSCAN
Start	142	End	545
GI	none	Score	.63
Exons	142..384, 474..545		

Seq. No.	54015	Seq. ID	OJ990325_08.0419.C41
Gene No.	113405	Strand	+
Start	114	End	744
Name	OJ990325_08.0419.C41.o1.tm	Method	TBLASTX:Maize
Start	310	End	742
GI	none	Score	99
Exons	310..384, 318..383, 473..556, 474..557, 485..559, 673..741, 673..741, 674..742		

Seq. No.	54016	Seq. ID	OJ990325_08.0419.C42
Gene No.	113406	Strand	+
Start	1885	End	3060
Name	OJ990325_08.0419.C42.o1.gs	Method	GENSCAN
Start	1885	End	3060
GI	none	Score	.42
Exons	1885..2063, 2140..2255, 2697..3060		

Seq. No.	54017	Seq. ID	OJ990325_08.0419.C43
Gene No.	113407	Strand	+
Start	51	End	199
Name	OJ990325_08.0419.C43.o1.gs	Method	GENSCAN
Start	51	End	199
GI	none	Score	.47
Exons	51..199		

Seq. No.	54018	Seq. ID	OJ990325_08.0419.C46
Gene No.	113408	Strand	+
Start	210	End	339
Name	OJ990325_08.0419.C46.o1.gs	Method	GENSCAN

Start	210	End	339
GI	none	Score	.91
Exons	210..339		

Seq. No.	54019	Seq. ID	OJ990325_08.0419.C47
Gene No.	113409	Strand	+
Start	591	End	2436
Name	OJ990325_08.0419.C47.o1.gs	Method	GENSCAN
Start	591	End	2436
GI	none	Score	.41
Exons	591..761, 964..1397, 2332..2436		

Seq. No.	54020	Seq. ID	OJ990325_08.0419.C48
Gene No.	113410	Strand	-
Start	624	End	1746
Name	OJ990325_08.0419.C48.o1.gs	Method	GENSCAN
Start	624	End	1746
GI	none	Score	.56
Exons	624..860, 1669..1746		

Seq. No.	54021	Seq. ID	OJ990325_08.0419.C50
Gene No.	113411	Strand	+
Start	267	End	641
Name	OJ990325_08.0419.C50.o1.gs	Method	GENSCAN
Start	267	End	641
GI	none	Score	.85
Exons	267..398, 600..641		

Seq. No.	54021	Seq. ID	OJ990325_08.0419.C50
Gene No.	113412	Strand	-
Start	1110	End	1438
Name	OJ990325_08.0419.C50.o2.gs	Method	GENSCAN
Start	1110	End	1438
GI	none	Score	.49
Exons	1110..1135, 1189..1438		

Seq. No.	54022	Seq. ID	OJ990325_08.0419.C52
Gene No.	113413	Strand	+
Start	430	End	876
Name	OJ990325_08.0419.C52.o1.gs	Method	GENSCAN
Start	430	End	876
GI	none	Score	.72
Exons	430..876		

Seq. No.	54023	Seq. ID	OJ990325_08.0419.C53
Gene No.	113414	Strand	-
Start	313	End	390
Name	OJ990325_08.0419.C53.o1.gs	Method	GENSCAN
Start	313	End	390
GI	none	Score	.79
Exons	313..390		

Seq. No.	54024	Seq. ID	OJ990325_08.0419.C54
Gene No.	113415	Strand	+
Start	1	End	3739
Name	OJ990325_08.0419.C54.o1.np	Method	AAT/NAP
Start	1	End	3739

GI	7433382	Score	476
Exons	1..39, 379..539, 1171..1284, 1392..1445, 2445..2554, 2667..2740, 2836..2897, 3155..3357, 3431..3499, 3692..3739		
GI Descrip.	ferredoxin--NADP+ reductase homolog F10M6.10 - Arabidopsis thaliana gi|2864608|emb|CAA16955.1| (AL021811) ferredoxin--NADP+ reductase - like protein [Arabidopsis thaliana] gi|4049338|emb|CAA22563.1| (AL034567) ferredoxin-NADP+ reductase-like protein [Arabidopsis thaliana] gi|7270140|emb|CAB79953.1| (AL161581) ferredoxin-NADP+ reductase-like protein [Arabidopsis thaliana]		

Seq. No.	54024	Seq. ID	OJ990325_08.0419.C54
Gene No.	113415	Strand	+
Start	1	End	3739
Name	OJ990325_08.0419.C54.o1.gs	Method	GENSCAN
Start	963	End	3488
GI	none	Score	.82
Exons	963..1086, 1171..1284, 1392..1445, 1866..1982, 2445..2554, 3274..3350, 3421..3488		

Seq. No.	54024	Seq. ID	OJ990325_08.0419.C54
Gene No.	113415	Strand	+
Start	1	End	3739
Name	OJ990325_08.0419.C54.o1.tm	Method	TBLASTX:Maize
Start	2442	End	3505
GI	none	Score	164
Exons	2442..2561, 2443..2556, 2658..2741, 2664..2741, 2665..2742, 2666..2743, 2807..2908, 2835..2897, 3152..3214, 3214..3351, 3216..3383, 3218..3352, 3418..3495, 3422..3505, 3423..3497		

Seq. No.	54025	Seq. ID	OJ990325_08.0419.C55
Gene No.	113416	Strand	+
Start	6747	End	6933
Name	OJ990325_08.0419.C55.o1.gp	Method	AAT/GAP
Start	6747	End	6933
GI	uC-osrocyp037h08b1	Score	354
Exons	6747..6933		
GI Descrip.	'4972056/emb|CAB43924.1| 8.0e-09 (AL078470) putative protein [Arabidopsis thaliana]'		

Seq. No.	54025	Seq. ID	OJ990325_08.0419.C55
Gene No.	113417	Strand	+
Start	7716	End	8453
Name	OJ990325_08.0419.C55.o2.gp	Method	AAT/GAP
Start	7716	End	8453
GI	568757	Score	263
Exons	7716..7744, 8053..8130, 8367..8453		
GI Descrip.	4972056/emb|CAB43924.1| 8.0e-09 (AL078470) putative protein [Arabidopsis thaliana]		

Seq. No.	54025	Seq. ID	OJ990325_08.0419.C55
Gene No.	113418	Strand	+
Start	8367	End	8453
Name	OJ990325_08.0419.C55.o1.np	Method	AAT/NAP
Start	8367	End	8453
GI	7340904	Score	50
Exons	8367..8453		

GI Descrip. (AP001550) hypothetical protein [Oryza sativa]

Seq. No.	54026	Seq. ID	OJ990325_08.0419.C56
Gene No.	113419	Strand	-
Start	191	End	2690
Name	OJ990325_08.0419.C56.o1.gs	Method	GENSCAN
Start	191	End	2690
GI	none	Score	.54
Exons	191..220, 2167..2301, 2408..2690		

Seq. No.	54027	Seq. ID	OJ990325_08.0419.C57
Gene No.	113420	Strand	+
Start	1090	End	1196
Name	OJ990325_08.0419.C57.o1.gs	Method	GENSCAN
Start	1090	End	1196
GI	none	Score	.92
Exons	1090..1196		

Seq. No.	54027	Seq. ID	OJ990325_08.0419.C57
Gene No.	113421	Strand	-
Start	1586	End	1688
Name	OJ990325_08.0419.C57.o1.ts	Method	TBLASTX:Soybean
Start	406	End	885
GI	none	Score	58
Exons	406..444, 556..780, 575..802, 853..885		

Seq. No.	54027	Seq. ID	OJ990325_08.0419.C57
Gene No.	113421	Strand	-
Start	1586	End	1688
Name	OJ990325_08.0419.C57.o1.tw	Method	TBLASTX:Wheat
Start	481	End	759
GI	none	Score	185
Exons	481..759		

Seq. No.	54027	Seq. ID	OJ990325_08.0419.C57
Gene No.	113421	Strand	-
Start	1586	End	1688
Name	OJ990325_08.0419.C57.o1.tm	Method	TBLASTX:Maize
Start	610	End	931
GI	none	Score	94
Exons	610..888, 610..888, 611..931		

Seq. No.	54027	Seq. ID	OJ990325_08.0419.C57
Gene No.	113421	Strand	-
Start	1586	End	1688
Name	OJ990325_08.0419.C57.o2.gs	Method	GENSCAN
Start	1586	End	1688
GI	none	Score	.96
Exons	1586..1688		

Seq. No.	54028	Seq. ID	OJ990325_08.0419.C58
Gene No.	113422	Strand	-
Start	63	End	980
Name	OJ990325_08.0419.C58.o1.gs	Method	GENSCAN
Start	63	End	980
GI	none	Score	.71
Exons	63..319, 418..583, 778..980		

Seq. No.	54029	Seq. ID	OJ990325_08.0419.C59
Gene No.	113423	Strand	-
Start	64	End	249
Name	OJ990325_08.0419.C59.o1.gs	Method	GENSCAN
Start	64	End	249
GI	none	Score	.55
Exons	64..249		

Seq. No.	54030	Seq. ID	OJ990325_08.0419.C60
Gene No.	113424	Strand	+
Start	292	End	371
Name	OJ990325_08.0419.C60.o1.gs	Method	GENSCAN
Start	292	End	371
GI	none	Score	.6
Exons	292..371		

Seq. No.	54031	Seq. ID	OJ990325_08.0419.C61
Gene No.	113425	Strand	-
Start	231	End	1311
Name	OJ990325_08.0419.C61.o1.tw	Method	TBLASTX:Wheat
Start	210	End	400
GI	none	Score	201
Exons	210..392, 229..387, 230..400, 246..389		

Seq. No.	54031	Seq. ID	OJ990325_08.0419.C61
Gene No.	113425	Strand	-
Start	231	End	1311
Name	OJ990325_08.0419.C61.o1.np	Method	AAT/NAP
Start	231	End	1311
GI	7433382	Score	209
Exons	231..461, 866..962, 1228..1311		
GI Descrip.	ferredoxin--NADP+ reductase homolog F10M6.10 - Arabidopsis thaliana gi|2864608|emb|CAA16955.1| (AL021811) ferredoxin--NADP+ reductase - like protein [Arabidopsis thaliana] gi|4049338|emb|CAA22563.1| (AL034567) ferredoxin-NADP+ reductase-like protein [Arabidopsis thaliana] gi|7270140|emb|CAB79953.1| (AL161581) ferredoxin-NADP+ reductase-like protein [Arabidopsis thaliana]		

Seq. No.	54031	Seq. ID	OJ990325_08.0419.C61
Gene No.	113425	Strand	-
Start	231	End	1311
Name	OJ990325_08.0419.C61.o1.tm	Method	TBLASTX:Maize
Start	255	End	932
GI	none	Score	267
Exons	255..461, 259..462, 302..475, 863..931, 864..932		

Seq. No.	54031	Seq. ID	OJ990325_08.0419.C61
Gene No.	113425	Strand	-
Start	231	End	1311
Name	OJ990325_08.0419.C61.o1.gs	Method	GENSCAN
Start	299	End	461
GI	none	Score	.7
Exons	299..461		

Seq. No.	54032	Seq. ID	OJ990325_08.0419.C62

Gene No.	113426	Strand	+
Start	227	End	363
Name	OJ990325_08.0419.C62.o1.gs	Method	GENSCAN
Start	227	End	363
GI	none	Score	.81
Exons	227..363		

Seq. No.	54032	Seq. ID	OJ990325_08.0419.C62
Gene No.	113427	Strand	
Start	594	End	837
Name	OJ990325_08.0419.C62.o1.tw	Method	TBLASTX:Wheat
Start	594	End	832
GI	none	Score	45
Exons	594..683, 637..681, 676..831, 680..832	678..800, 679..828, 680..829,	

Seq. No.	54032	Seq. ID	OJ990325_08.0419.C62
Gene No.	113427	Strand	
Start	594	End	837
Name	OJ990325_08.0419.C62.o1.tm	Method	TBLASTX:Maize
Start	595	End	837
GI	none	Score	43
Exons	595..684, 597..632, 630..683,	672..800, 676..837, 676..816	

Seq. No.	54033	Seq. ID	OJ990325_08.0419.C63
Gene No.	113428	Strand	-
Start	104	End	493
Name	OJ990325_08.0419.C63.o1.gs	Method	GENSCAN
Start	104	End	493
GI	none	Score	.48
Exons	104..248, 449..493		

Seq. No.	54034	Seq. ID	OJ990325_08.0419.C65
Gene No.	113429	Strand	+
Start	452	End	719
Name	OJ990325_08.0419.C65.o1.gp	Method	AAT/GAP
Start	452	End	719
GI	LIB3431-041-P1-N1-G6	Score	416
Exons	452..719		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	54035	Seq. ID	OJ990325_08.0419.C66
Gene No.	113430	Strand	-
Start	91	End	685
Name	OJ990325_08.0419.C66.o1.gs	Method	GENSCAN
Start	91	End	685
GI	none	Score	.62
Exons	91..487, 521..685		

Seq. No.	54036	Seq. ID	OJ990325_08.0419.C67
Gene No.	113431	Strand	-
Start	1192	End	1676
Name	OJ990325_08.0419.C67.o1.gs	Method	GENSCAN
Start	1192	End	1676
GI	none	Score	.5
Exons	1192..1305, 1455..1676		

Seq. No.	54037	Seq. ID	OJ990715_01.0421.C1
Gene No.	113432	Strand	+
Start	7146	End	8952
Name	OJ990715_01.0421.C1.o2.gs	Method	GENSCAN
Start	7146	End	8952
GI	none	Score	.47
Exons	7146..7353, 8768..8952		

Seq. No.	54037	Seq. ID	OJ990715_01.0421.C1
Gene No.	113433	Strand	+
Start	10139	End	10321
Name	OJ990715_01.0421.C1.o3.gs	Method	GENSCAN
Start	10139	End	10321
GI	none	Score	.78
Exons	10139..10321		

Seq. No.	54037	Seq. ID	OJ990715_01.0421.C1
Gene No.	113434	Strand	+
Start	14259	End	17655
Name	OJ990715_01.0421.C1.o5.gs	Method	GENSCAN
Start	14259	End	17655
GI	none	Score	.69
Exons	14259..14562, 15465..15569, 15945..15995, 17576..17655		

Seq. No.	54037	Seq. ID	OJ990715_01.0421.C1
Gene No.	113434	Strand	+
Start	14259	End	17655
Name	OJ990715_01.0421.C1.o1.gp	Method	AAT/GAP
Start	14604	End	15070
GI	3760640	Score	99
Exons	14604..14630, 15007..15070		
GI Descrip.	4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	54037	Seq. ID	OJ990715_01.0421.C1
Gene No.	113435	Strand	+
Start	26119	End	27532
Name	OJ990715_01.0421.C1.o7.gs	Method	GENSCAN
Start	26119	End	27532
GI	none	Score	.68
Exons	26119..26372, 27433..27532		

Seq. No.	54037	Seq. ID	OJ990715_01.0421.C1
Gene No.	113436	Strand	+
Start	28261	End	28379
Name	OJ990715_01.0421.C1.o2.np	Method	AAT/NAP
Start	28261	End	28379
GI	7106528	Score	103
Exons	28261..28379		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54037	Seq. ID	OJ990715_01.0421.C1
Gene No.	113437	Strand	-
Start	11454	End	12314
Name	OJ990715_01.0421.C1.o4.gs	Method	GENSCAN

Start	11454	End	12314
GI	none	Score	.74
Exons	11454..11570, 11605..11745, 11947..12162, 12168..12314		

Seq. No.	54037	Seq. ID	OJ990715_01.0421.C1
Gene No.	113438	Strand	-
Start	18484	End	24385
Name	OJ990715_01.0421.C1.o6.gs	Method	GENSCAN
Start	18484	End	24385
GI	none	Score	.51
Exons	18484..18501, 20033..20380, 21290..21412, 21440..21588, 21684..21809, 21811..21993, 23411..23588, 24371..24385		

Seq. No.	54037	Seq. ID	OJ990715_01.0421.C1
Gene No.	113439	Strand	-
Start	28761	End	29756
Name	OJ990715_01.0421.C1.o2.gp	Method	AAT/GAP
Start	28213	End	28356
GI	21474_1.R1084	Score	239
Exons	28213..28356		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	54037	Seq. ID	OJ990715_01.0421.C1
Gene No.	113439	Strand	-
Start	28761	End	29756
Name	OJ990715_01.0421.C1.o8.gs	Method	GENSCAN
Start	28761	End	29756
GI	none	Score	.84
Exons	28761..28946, 29026..29124, 29219..29291, 29376..29521, 29583..29756		

Seq. No.	54038	Seq. ID	OJ990715_01.0421.C2
Gene No.	113440	Strand	-
Start	497	End	636
Name	OJ990715_01.0421.C2.o1.gp	Method	AAT/GAP
Start	497	End	636
GI	21474_1.R1084	Score	228
Exons	497..636		
GI Descrip.	'3894159 2.0e-10 (AC005312) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	54039	Seq. ID	OJ990105_03.0419.C1
Gene No.	113441	Strand	-
Start	588	End	1171
Name	OJ990105_03.0419.C1.o1.tm	Method	TBLASTX:Maize
Start	553	End	891
GI	none	Score	100
Exons	553..891, 554..637, 634..873		

Seq. No.	54039	Seq. ID	OJ990105_03.0419.C1
Gene No.	113441	Strand	-
Start	588	End	1171
Name	OJ990105_03.0419.C1.o1.gs	Method	GENSCAN
Start	588	End	1131
GI	none	Score	.98
Exons	588..1131		

Seq. No.	54039	Seq. ID	OJ990105_03.0419.C1
Gene No.	113441	Strand	-
Start	588	End	1171
Name	OJ990105_03.0419.C1.o2.tm	Method	TBLASTX:Maize
Start	925	End	1171
GI	none	Score	128
Exons	925..1035, 929..1036, 1040..1171, 1043..1165		

Seq. No.	54040	Seq. ID	OJ990105_03.0419.C2
Gene No.	113442	Strand	-
Start	1	End	1166
Name	OJ990105_03.0419.C2.o1.gp	Method	AAT/GAP
Start	1	End	289
GI	3762369	Score	331
Exons	1..105, 188..289		
GI Descrip.	4388717/gb|AAD19755| 3.0e-44 (AC006413) putative nuclear phosphoprotein (contains multiple TPR repeats prosite:QDOC50005) [Arabidopsis thaliana]		

Seq. No.	54040	Seq. ID	OJ990105_03.0419.C2
Gene No.	113442	Strand	-
Start	1	End	1166
Name	OJ990105_03.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	1	End	292
GI	none	Score	118
Exons	1..105, 11..106, 21..107, 185..292, 186..290, 188..292		

Seq. No.	54040	Seq. ID	OJ990105_03.0419.C2
Gene No.	113442	Strand	-
Start	1	End	1166
Name	OJ990105_03.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	1166
GI	6598631	Score	199
Exons	1..105, 188..292, 1027..1166		
GI Descrip.	(AC006918) putative TPR repeat nuclear phosphoprotein [Arabidopsis thaliana]		

Seq. No.	54040	Seq. ID	OJ990105_03.0419.C2
Gene No.	113442	Strand	-
Start	1	End	1166
Name	OJ990105_03.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	13	End	296
GI	none	Score	76
Exons	13..39, 16..105, 44..106, 45..107, 182..292, 186..296		

Seq. No.	54040	Seq. ID	OJ990105_03.0419.C2
Gene No.	113442	Strand	-
Start	1	End	1166
Name	OJ990105_03.0419.C2.o1.gs	Method	GENSCAN
Start	188	End	289
GI	none	Score	.6
Exons	188..289		

Seq. No.	54041	Seq. ID	OJ990105_03.0419.C4
Gene No.	113443	Strand	+
Start	810	End	4284

Name	OJ990105_03.0419.C4.o1.gs	Method	GENSCAN
Start	810	End	4147
GI	none	Score	.47
Exons	810..1006, 1044..1090, 1189..1270, 1704..2816, 3532..3858, 3937..4147		

Seq. No.	54041	Seq. ID	OJ990105_03.0419.C4
Gene No.	113443	Strand	+
Start	810	End	4284
Name	OJ990105_03.0419.C4.o1.np	Method	AAT/NAP
Start	1738	End	2647
GI	6721562	Score	710
Exons	1738..2647		
GI Descrip.	(AP001073) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa] gi|6815087|dbj|BAA90373.1| (AP001081) Similar to Zea mays 22-kDa alpha zein gene cluster; hypothetical protein. (AF031569) [Oryza sativa]		

Seq. No.	54041	Seq. ID	OJ990105_03.0419.C4
Gene No.	113443	Strand	+
Start	810	End	4284
Name	OJ990105_03.0419.C4.o2.np	Method	AAT/NAP
Start	3255	End	4284
GI	7340909	Score	219
Exons	3255..3652, 4185..4284		
GI Descrip.	(AP001550) hypothetical protein [Oryza sativa]		

Seq. No.	54042	Seq. ID	OJ990105_03.0419.C5
Gene No.	113444	Strand	+
Start	634	End	2776
Name	OJ990105_03.0419.C5.o1.np	Method	AAT/NAP
Start	634	End	2776
GI	4097889	Score	103
Exons	634..741, 1070..1264, 1369..1527, 1699..1829, 2733..2776		
GI Descrip.	(U70827) cyclophilin [Onchocerca volvulus]		

Seq. No.	54042	Seq. ID	OJ990105_03.0419.C5
Gene No.	113444	Strand	+
Start	634	End	2776
Name	OJ990105_03.0419.C5.o1.gs	Method	GENSCAN
Start	1149	End	1990
GI	none	Score	.74
Exons	1149..1264, 1369..1516, 1898..1990		

Seq. No.	54042	Seq. ID	OJ990105_03.0419.C5
Gene No.	113445	Strand	-
Start	1870	End	2368
Name	OJ990105_03.0419.C5.o1.tm	Method	TBLASTX:Maize
Start	1125	End	1408
GI	none	Score	104
Exons	1125..1256, 1126..1260, 1126..1260, 1127..1264, 1128..1262, 1360..1407, 1367..1408		

Seq. No.	54042	Seq. ID	OJ990105_03.0419.C5
Gene No.	113445	Strand	-
Start	1870	End	2368

Name	OJ990105_03.0419.C5.o1.gp	Method	AAT/GAP
Start	1870	End	2368
GI	uC-osflcyp111c03a1	Score	872
Exons	1870..2368		
GI Descrip.	'6069643/dbj|AP000616.1|AP000616 4.0e-11 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	54043	Seq. ID	OJ990105_03.0419.C6
Gene No.	113446	Strand	+
Start	121	End	2690
Name	OJ990105_03.0419.C6.o1.gs	Method	GENSCAN
Start	121	End	2690
GI	none	Score	.64
Exons	121..312, 406..458, 656..784, 1273..1530, 1808..2114, 2562..2690		

Seq. No.	54043	Seq. ID	OJ990105_03.0419.C6
Gene No.	113447	Strand	-
Start	2844	End	3245
Name	OJ990105_03.0419.C6.o2.gs	Method	GENSCAN
Start	2844	End	3245
GI	none	Score	.66
Exons	2844..3245		

Seq. No.	54044	Seq. ID	OJ990105_03.0419.C7
Gene No.	113448	Strand	+
Start	1439	End	1636
Name	OJ990105_03.0419.C7.o1.gs	Method	GENSCAN
Start	1439	End	1636
GI	none	Score	.42
Exons	1439..1497, 1585..1636		

Seq. No.	54045	Seq. ID	OJ990105_03.0419.C8
Gene No.	113449	Strand	+
Start	678	End	17071
Name	OJ990105_03.0419.C8.o1.np	Method	AAT/NAP
Start	578	End	5564
GI	130582	Score	239
Exons	578..1304, 5518..5564		
GI Descrip.	RETROVIRUS-RELATED POL POLYPROTEIN FROM TRANSPOSON TNT 1-94 [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE] gi|100342|pir||S04273 hypothetical protein - common tobacco gi|20045|emb|CAA32025| (X13777) ORF [Nicotiana tabacum]		

Seq. No.	54045	Seq. ID	OJ990105_03.0419.C8
Gene No.	113449	Strand	+
Start	678	End	17071
Name	OJ990105_03.0419.C8.o2.gs	Method	GENSCAN
Start	678	End	1895
GI	none	Score	.54
Exons	678..749, 866..988, 1173..1435, 1440..1461, 1566..1895		

Seq. No.	54045	Seq. ID	OJ990105_03.0419.C8
Gene No.	113449	Strand	+
Start	678	End	17071
Name	OJ990105_03.0419.C8.o3.gs	Method	GENSCAN
Start	4788	End	16208
GI	none	Score	.84

Exons 4788..4933, 5030..5123, 5221..5339, 6419..6707, 7319..7385, 7521..7712, 8896..8996, 9766..9846, 10704..10790, 10877..10984, 11076..11139, 11217..11431, 11563..11647, 12849..12919, 12999..13091, 14376..14444, 14824..15081, 15897..15977, 16047..16208

Seq. No.	54045	Seq. ID	OJ990105_03.0419.C8
Gene No.	113449	Strand	+
Start	678	End	17071
Name	OJ990105_03.0419.C8.o2.np	Method	AAT/NAP
Start	6567	End	17071
GI	6598631	Score	1515

Exons 6567..6707, 7319..7414, 7505..7712, 8896..9036, 10940..11139, 11217..11431, 11563..11647, 12819..12919, 12999..13091, 14376..14444, 14653..14745, 14824..15081, 15897..15981, 16051..16208, 16722..16826, 17032..17071

GI Descrip. (AC006918) putative TPR repeat nuclear phosphoprotein [Arabidopsis thaliana]

Seq. No.	54045	Seq. ID	OJ990105_03.0419.C8
Gene No.	113450	Strand	-
Start	45	End	378
Name	OJ990105_03.0419.C8.o1.gs	Method	GENSCAN
Start	45	End	378
GI	none	Score	.55

Exons 45..378

Seq. No.	54045	Seq. ID	OJ990105_03.0419.C8
Gene No.	113451	Strand	
Start	8895	End	11359
Name	OJ990105_03.0419.C8.o1.tm	Method	TBLASTX:Maize
Start	8895	End	11002
GI	none	Score	145

Exons 8895..8996, 8895..8996, 8896..8997, 8896..9009, 10693..10785, 10701..10790, 10703..10789, 10869..10979, 10876..10950, 10877..11002, 10879..11001

Seq. No.	54045	Seq. ID	OJ990105_03.0419.C8
Gene No.	113451	Strand	
Start	8895	End	11359
Name	OJ990105_03.0419.C8.o1.tc	Method	TBLASTX:Cress
Start	10877	End	11359
GI	none	Score	160

Exons 10877..11011, 10880..10993, 10900..11001, 11069..11143, 11073..11138, 11079..11147, 11221..11358, 11222..11359

Seq. No.	54045	Seq. ID	OJ990105_03.0419.C8
Gene No.	113452	Strand	
Start	15013	End	16209
Name	OJ990105_03.0419.C8.o1.ts	Method	TBLASTX:Soybean
Start	15013	End	16209
GI	none	Score	78

Exons 15013..15081, 15884..15979, 15894..15983, 15896..15982, 16051..16125, 16051..16125, 16053..16127, 16122..16208, 16123..16209, 16124..16198

Seq. No.	54046	Seq. ID	OJ990105_03.0419.C9

Gene No.	113453	Strand	+
Start	564	End	2761
Name	OJ990105_03.0419.C9.o1.gs	Method	GENSCAN
Start	564	End	2761
GI	none	Score	.6
Exons	564..753, 1523..1618, 2039..2086, 2693..2761		

Seq. No.	54046	Seq. ID	OJ990105_03.0419.C9
Gene No.	113454	Strand	+
Start	3479	End	4136
Name	OJ990105_03.0419.C9.o2.gs	Method	GENSCAN
Start	3479	End	4136
GI	none	Score	.53
Exons	3479..3577, 4029..4136		

Seq. No.	54047	Seq. ID	OJ990105_03.0419.C11
Gene No.	113455	Strand	-
Start	619	End	960
Name	OJ990105_03.0419.C11.o1.gs	Method	GENSCAN
Start	619	End	960
GI	none	Score	.67
Exons	619..736, 810..960		

Seq. No.	54048	Seq. ID	OJ990105_03.0419.C13
Gene No.	113456	Strand	+
Start	22	End	2147
Name	OJ990105_03.0419.C13.o1.np	Method	AAT/NAP
Start	22	End	2147
GI	322871	Score	727
Exons	22..1459, 2040..2147		
GI Descrip.	hypothetical protein 1 - maize transposon En-1 gi|225005|prf||1206239A ORF 1 [Zea mays]		

Seq. No.	54048	Seq. ID	OJ990105_03.0419.C13
Gene No.	113457	Strand	-
Start	1788	End	2147
Name	OJ990105_03.0419.C13.o2.tw	Method	TBLASTX:Wheat
Start	538	End	870
GI	none	Score	130
Exons	538..741, 541..702, 754..870, 754..849		

Seq. No.	54048	Seq. ID	OJ990105_03.0419.C13
Gene No.	113457	Strand	-
Start	1788	End	2147
Name	OJ990105_03.0419.C13.o1.tc	Method	TBLASTX:Cress
Start	757	End	1092
GI	none	Score	84
Exons	757..849, 867..1091, 880..1092, 880..1092		

Seq. No.	54048	Seq. ID	OJ990105_03.0419.C13
Gene No.	113457	Strand	-
Start	1788	End	2147
Name	OJ990105_03.0419.C13.o1.tw	Method	TBLASTX:Wheat
Start	880	End	1179
GI	none	Score	229
Exons	880..1179, 885..1160		

Seq. No.	54048	Seq. ID	OJ990105_03.0419.C13
Gene No.	113457	Strand	-
Start	1788	End	2147
Name	OJ990105_03.0419.C13.o1.tm	Method	TBLASTX:Maize
Start	933	End	1362
GI	none	Score	350
Exons	933..1298, 934..1362, 934..1299		

Seq. No.	54048	Seq. ID	OJ990105_03.0419.C13
Gene No.	113457	Strand	-
Start	1788	End	2147
Name	OJ990105_03.0419.C13.o2.np	Method	AAT/NAP
Start	1788	End	2147
GI	5295971	Score	508
Exons	1788..2147		
GI Descrip.	(AB026295) EST D24315(R1718) corresponds to a region of the predicted gene.; Similar to Tobacco DNA for retroviral-like transposon Tnt 1-94.(X13777) [Oryza sativa]		

Seq. No.	54048	Seq. ID	OJ990105_03.0419.C13
Gene No.	113457	Strand	-
Start	1788	End	2147
Name	OJ990105_03.0419.C13.o2.tm	Method	TBLASTX:Maize
Start	1822	End	2117
GI	none	Score	333
Exons	1822..2109, 1824..2117		

Seq. No.	54049	Seq. ID	OJ990105_03.0419.C14
Gene No.	113458	Strand	+
Start	711	End	2901
Name	OJ990105_03.0419.C14.o1.tm	Method	TBLASTX:Maize
Start	225	End	473
GI	none	Score	60
Exons	225..278, 226..273, 229..279, 231..278, 278..343, 279..344, 280..348, 281..349, 339..473, 340..471, 354..473		

Seq. No.	54049	Seq. ID	OJ990105_03.0419.C14
Gene No.	113458	Strand	+
Start	711	End	2901
Name	OJ990105_03.0419.C14.o3.tw	Method	TBLASTX:Wheat
Start	357	End	827
GI	none	Score	88
Exons	357..524, 510..827, 534..701, 766..825		

Seq. No.	54049	Seq. ID	OJ990105_03.0419.C14
Gene No.	113458	Strand	+
Start	711	End	2901
Name	OJ990105_03.0419.C14.o3.tm	Method	TBLASTX:Maize
Start	474	End	827
GI	none	Score	68
Exons	474..827, 544..699, 546..827		

Seq. No.	54049	Seq. ID	OJ990105_03.0419.C14
Gene No.	113458	Strand	+
Start	711	End	2901
Name	OJ990105_03.0419.C14.o2.ts	Method	TBLASTX:Soybean
Start	525	End	827

GI	5509260	Score	107
Exons	525..827, 544..702		
GI Descrip.	-		

Seq. No.	54049	Seq. ID	OJ990105_03.0419.C14
Gene No.	113458	Strand	+
Start	711	End	2901
Name	OJ990105_03.0419.C14.o1.np	Method	AAT/NAP
Start	711	End	2901
GI	2443320	Score	2763
Exons	711..2901		
GI Descrip.	(D85597) polyprotein [Oryza australiensis]		

Seq. No.	54049	Seq. ID	OJ990105_03.0419.C14
Gene No.	113458	Strand	+
Start	711	End	2901
Name	OJ990105_03.0419.C14.o4.tw	Method	TBLASTX:Wheat
Start	909	End	1255
GI	none	Score	215
Exons	909..1253, 1007..1255		

Seq. No.	54049	Seq. ID	OJ990105_03.0419.C14
Gene No.	113458	Strand	+
Start	711	End	2901
Name	OJ990105_03.0419.C14.o2.tw	Method	TBLASTX:Wheat
Start	1715	End	2168
GI	none	Score	69
Exons	1715..1960, 1749..1964, 1751..2029, 1962..2168, 2008..2154, 2033..2164		

Seq. No.	54049	Seq. ID	OJ990105_03.0419.C14
Gene No.	113458	Strand	+
Start	711	End	2901
Name	OJ990105_03.0419.C14.o3.ts	Method	TBLASTX:Soybean
Start	2019	End	2330
GI	none	Score	114
Exons	2019..2159, 2184..2315, 2208..2330		

Seq. No.	54049	Seq. ID	OJ990105_03.0419.C14
Gene No.	113458	Strand	+
Start	711	End	2901
Name	OJ990105_03.0419.C14.o1.tw	Method	TBLASTX:Wheat
Start	2184	End	2840
GI	none	Score	748
Exons	2184..2840, 2187..2792, 2200..2799, 2210..2830		

Seq. No.	54049	Seq. ID	OJ990105_03.0419.C14
Gene No.	113458	Strand	+
Start	711	End	2901
Name	OJ990105_03.0419.C14.o2.tm	Method	TBLASTX:Maize
Start	2367	End	2861
GI	none	Score	183
Exons	2367..2630, 2447..2542, 2649..2726, 2712..2861		

Seq. No.	54049	Seq. ID	OJ990105_03.0419.C14
Gene No.	113458	Strand	+
Start	711	End	2901

Name	OJ990105_03.0419.C14.o1.ts	Method	TBLASTX:Soybean
Start	2418	End	2846
GI	none	Score	183
Exons	2418..2645, 2420..2644, 2645..2710, 2646..2726, 2712..2846		

Seq. No.	54049	Seq. ID	OJ990105_03.0419.C14
Gene No.	113458	Strand	+
Start	711	End	2901
Name	OJ990105_03.0419.C14.o1.tc	Method	TBLASTX:Cress
Start	2430	End	2894
GI	none	Score	121
Exons	2430..2636, 2646..2723, 2742..2894		

Seq. No.	54050	Seq. ID	OJ990105_03.0419.C15
Gene No.	113459	Strand	+
Start	261	End	1203
Name	OJ990105_03.0419.C15.o1.gp	Method	AAT/GAP
Start	261	End	1203
GI	23978_1.R1084	Score	1074
Exons	261..480, 529..563, 829..1203		
GI Descrip.	'4388717/gb|AAD19755| 3.0e-44 (AC006413) putative nuclear phosphoprotein (contains multiple TPR repeats prosite:QDOC50005) [Arabidopsis thaliana]'		

Seq. No.	54050	Seq. ID	OJ990105_03.0419.C15
Gene No.	113459	Strand	+
Start	261	End	1203
Name	OJ990105_03.0419.C15.o1.gs	Method	GENSCAN
Start	481	End	945
GI	none	Score	.98
Exons	481..563, 829..945		

Seq. No.	54051	Seq. ID	OJ990105_03.0419.C17
Gene No.	113460	Strand	-
Start	1	End	1091
Name	OJ990105_03.0419.C17.o1.np	Method	AAT/NAP
Start	1	End	1069
GI	3024122	Score	817
Exons	1..45, 494..1069		
GI Descrip.	S-ADENOSYLMETHIONINE SYNTHETASE 2 (METHIONINE ADENOSYLTRANSFERASE 2) (ADOMET SYNTHETASE 2) gi|1778821 (U82833) S-adenosyl-L-methionine synthetase [Oryza sativa]		

Seq. No.	54051	Seq. ID	OJ990105_03.0419.C17
Gene No.	113460	Strand	-
Start	1	End	1091
Name	OJ990105_03.0419.C17.o1.tc	Method	TBLASTX:Cress
Start	491	End	1061
GI	none	Score	181
Exons	491..646, 492..647, 710..1060, 714..1061		

Seq. No.	54051	Seq. ID	OJ990105_03.0419.C17
Gene No.	113460	Strand	-
Start	1	End	1091
Name	OJ990105_03.0419.C17.o2.ts	Method	TBLASTX:Soybean
Start	491	End	647
GI	none	Score	195

Exons	491..646, 492..647		
Seq. No.	54051	Seq. ID	OJ990105_03.0419.C17
Gene No.	113460	Strand	-
Start	1	End	1091
Name	OJ990105_03.0419.C17.o1.tm	Method	TBLASTX:Maize
Start	491	End	1091
GI	none	Score	212
Exons	491..646, 492..644, 710..790, 710..1069, 711..1091, 953..1069, 954..1091		
Seq. No.	54051	Seq. ID	OJ990105_03.0419.C17
Gene No.	113460	Strand	-
Start	1	End	1091
Name	OJ990105_03.0419.C17.o1.tw	Method	TBLASTX:Wheat
Start	491	End	1073
GI	none	Score	227
Exons	491..646, 492..647, 710..1072, 711..1073		
Seq. No.	54051	Seq. ID	OJ990105_03.0419.C17
Gene No.	113460	Strand	-
Start	1	End	1091
Name	OJ990105_03.0419.C17.o1.ts	Method	TBLASTX:Soybean
Start	710	End	1078
GI	4292646	Score	424
Exons	710..1078, 711..1070		
GI Descrip.	2129889/pir__S66352 7.0e-67 methionine adenosyltransferase (EC 2.5.1.6) 2 - garden pea		
Seq. No.	54052	Seq. ID	OJ990105_03.0419.C18
Gene No.	113461	Strand	+
Start	513	End	4637
Name	OJ990105_03.0419.C18.o1.gs	Method	GENSCAN
Start	513	End	4637
GI	none	Score	.93
Exons	513..1819, 1951..1958, 2354..2529, 2863..2923, 2996..3094, 3196..3290, 3709..3836, 3975..4431, 4527..4637		
Seq. No.	54052	Seq. ID	OJ990105_03.0419.C18
Gene No.	113461	Strand	+
Start	513	End	4637
Name	OJ990105_03.0419.C18.o1.gp	Method	AAT/GAP
Start	2403	End	3296
GI	2798353	Score	609
Exons	2403..2529, 2863..2923, 2996..3094, 3196..3296		
Seq. No.	54052	Seq. ID	OJ990105_03.0419.C18
Gene No.	113462	Strand	+
Start	4620	End	5085
Name	OJ990105_03.0419.C18.o5.tm	Method	TBLASTX:Maize
Start	473	End	719
GI	none	Score	114
Exons	473..604, 479..601, 608..715, 609..719		
Seq. No.	54052	Seq. ID	OJ990105_03.0419.C18
Gene No.	113462	Strand	+
Start	4620	End	5085

Name	OJ990105_03.0419.C18.o2.tm	Method	TBLASTX:Maize
Start	753	End	1208
GI	none	Score	416
Exons	753..1169, 771..1010, 1007..1165, 1158..1208		

Seq. No.	54052	Seq. ID	OJ990105_03.0419.C18
Gene No.	113462	Strand	+
Start	4620	End	5085
Name	OJ990105_03.0419.C18.o4.tm	Method	TBLASTX:Maize
Start	1213	End	1515
GI	none	Score	236
Exons	1213..1443, 1213..1443, 1311..1457, 1446..1514, 1453..1515		

Seq. No.	54052	Seq. ID	OJ990105_03.0419.C18
Gene No.	113462	Strand	+
Start	4620	End	5085
Name	OJ990105_03.0419.C18.o3.tm	Method	TBLASTX:Maize
Start	1528	End	1825
GI	none	Score	284
Exons	1528..1821, 1530..1820, 1550..1825		

Seq. No.	54052	Seq. ID	OJ990105_03.0419.C18
Gene No.	113462	Strand	+
Start	4620	End	5085
Name	OJ990105_03.0419.C18.o1.tm	Method	TBLASTX:Maize
Start	2386	End	4823
GI	none	Score	220
Exons	2386..2532, 2388..2531, 2394..2534, 2823..2921, 2850..2918, 2863..2922, 2864..2923, 2982..3095, 2995..3105, 2995..3099, 3161..3283, 3196..3282, 3197..3289, 3198..3290, 3446..3565, 3449..3562, 3451..3564, 3709..3777, 3711..3776, 3973..4095, 3974..4096, 3975..4097, 3976..4095, 3978..4097, 4188..4295, 4189..4275, 4203..4295, 4290..4433, 4320..4433, 4321..4434, 4515..4637, 4515..4622, 4525..4638, 4526..4636, 4697..4816, 4726..4818, 4734..4823		

Seq. No.	54052	Seq. ID	OJ990105_03.0419.C18
Gene No.	113462	Strand	+
Start	4620	End	5085
Name	OJ990105_03.0419.C18.o2.ts	Method	TBLASTX:Soybean
Start	2850	End	3565
GI	none	Score	99
Exons	2850..2924, 2863..2925, 2998..3093, 3000..3086, 3197..3286, 3198..3290, 3446..3565, 3451..3564		

Seq. No.	54052	Seq. ID	OJ990105_03.0419.C18
Gene No.	113462	Strand	+
Start	4620	End	5085
Name	OJ990105_03.0419.C18.o1.ts	Method	TBLASTX:Soybean
Start	3708	End	4642
GI	none	Score	93
Exons	3708..3776, 3708..3776, 3709..3777, 3974..4093, 3976..4095, 3978..4094, 4188..4274, 4195..4275, 4290..4421, 4309..4434, 4512..4637, 4514..4642		

Seq. No.	54052	Seq. ID	OJ990105_03.0419.C18
Gene No.	113462	Strand	+

Start	4620	End	5085
Name	OJ990105_03.0419.C18.o1.tc	Method	TBLASTX:Cress
Start	4009	End	4637
GI	none	Score	113
Exons	4009..4095, 4017..4094, 4194..4223, 4195..4224, 4254..4433, 4264..4434, 4497..4622, 4515..4637, 4520..4627		

Seq. No.	54052	Seq. ID	OJ990105_03.0419.C18
Gene No.	113462	Strand	+
Start	4620	End	5085
Name	OJ990105_03.0419.C18.o2.gp	Method	AAT/GAP
Start	4620	End	5085
GI	6458_1.R1084	Score	735
Exons	4620..5085		
GI Descrip.	'984755/emb|Z54153|OSCHINDPR 4.0e-20 O.sativa mRNA for chilling-inducible protein'		

Seq. No.	54053	Seq. ID	OJ990105_03.0419.C19
Gene No.	113463	Strand	+
Start	514	End	2283
Name	OJ990105_03.0419.C19.o1.gs	Method	GENSCAN
Start	514	End	2283
GI	none	Score	.69
Exons	514..630, 1455..1552, 2115..2283		

Seq. No.	54053	Seq. ID	OJ990105_03.0419.C19
Gene No.	113464	Strand	+
Start	3811	End	4086
Name	OJ990105_03.0419.C19.o1.np	Method	AAT/NAP
Start	3811	End	4086
GI	6539588	Score	117
Exons	3811..4086		
GI Descrip.	(AP000837) hypothetical protein [Oryza sativa]		

Seq. No.	54053	Seq. ID	OJ990105_03.0419.C19
Gene No.	113465	Strand	-
Start	3851	End	5471
Name	OJ990105_03.0419.C19.o2.gs	Method	GENSCAN
Start	3851	End	5471
GI	none	Score	.57
Exons	3851..4016, 4862..5115, 5433..5471		

Seq. No.	54053	Seq. ID	OJ990105_03.0419.C19
Gene No.	113466	Strand	-
Start	6397	End	7711
Name	OJ990105_03.0419.C19.o3.gs	Method	GENSCAN
Start	6397	End	7711
GI	none	Score	.91
Exons	6397..6509, 7229..7410, 7608..7711		

Seq. No.	54054	Seq. ID	OJ990105_03.0419.C20
Gene No.	113467	Strand	-
Start	1755	End	1862
Name	OJ990105_03.0419.C20.o1.gs	Method	GENSCAN
Start	1755	End	1862
GI	none	Score	.82
Exons	1755..1862		

Seq. No.	54055	Seq. ID	OJ990105_03.0419.C21
Gene No.	113468	Strand	+
Start	363	End	1774
Name	OJ990105_03.0419.C21.o1.gs	Method	GENSCAN
Start	363	End	1774
GI	none	Score	.41
Exons	363..477, 1119..1219, 1513..1637, 1654..1774		

Seq. No.	54056	Seq. ID	OJ990105_03.0419.C25
Gene No.	113469	Strand	-
Start	526	End	981
Name	OJ990105_03.0419.C25.o1.gp	Method	AAT/GAP
Start	526	End	752
GI	6458_1.R1084	Score	301
Exons	526..752		
GI Descrip.	'984755/emb|Z54153|OSCHINDPR 4.0e-20 O.sativa mRNA for chilling-inducible protein'		

Seq. No.	54056	Seq. ID	OJ990105_03.0419.C25
Gene No.	113469	Strand	-
Start	526	End	981
Name	OJ990105_03.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	549	End	981
GI	none	Score	44
Exons	549..638, 556..675, 735..857, 736..846, 750..857, 938..979, 939..980, 940..981		

Seq. No.	54056	Seq. ID	OJ990105_03.0419.C25
Gene No.	113469	Strand	-
Start	526	End	981
Name	OJ990105_03.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	730	End	979
GI	none	Score	156
Exons	730..858, 735..860, 938..979		

Seq. No.	54056	Seq. ID	OJ990105_03.0419.C25
Gene No.	113469	Strand	-
Start	526	End	981
Name	OJ990105_03.0419.C25.o1.tc	Method	TBLASTX:Cress
Start	735	End	980
GI	none	Score	134
Exons	735..857, 745..852, 750..875, 938..979, 939..980		

Seq. No.	54057	Seq. ID	OJ990105_03.0419.C33
Gene No.	113470	Strand	+
Start	1071	End	1086
Name	OJ990105_03.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	919	End	1086
GI	none	Score	203
Exons	919..1080, 920..1081, 921..1082, 921..1082, 928..1086		

Seq. No.	54057	Seq. ID	OJ990105_03.0419.C33
Gene No.	113470	Strand	+
Start	1071	End	1086
Name	OJ990105_03.0419.C33.o1.gs	Method	GENSCAN
Start	1071	End	1080

GI	none	Score	.5
Exons	1071..1080		

Seq. No.	54058	Seq. ID	OJ990105_03.0419.C42
Gene No.	113471	Strand	+
Start	12395	End	12789
Name	OJ990105_03.0419.C42.o1.gp	Method	AAT/GAP
Start	12395	End	12789
GI	none	Score	738
Exons	12395..12789		

Seq. No.	54059	Seq. ID	OJ990105_03.0419.C43
Gene No.	113472	Strand	+
Start	1	End	5981
Name	OJ990105_03.0419.C43.o1.np	Method	AAT/NAP
Start	1	End	5981
GI	6598802	Score	559
Exons	1..81, 585..633, 2030..2140, 3450..3535, 3975..4112, 4183..4290, 4982..5055, 5194..5425, 5657..5981		
GI Descrip.	(AF024504) putative protein kinase [Arabidopsis thaliana]		

Seq. No.	54059	Seq. ID	OJ990105_03.0419.C43
Gene No.	113472	Strand	+
Start	1	End	5981
Name	OJ990105_03.0419.C43.o1.gs	Method	GENSCAN
Start	65	End	5366
GI	none	Score	.81
Exons	65..81, 579..633, 2030..2140, 3453..3500, 3937..4112, 4183..4290, 4982..5055, 5194..5366		

Seq. No.	54059	Seq. ID	OJ990105_03.0419.C43
Gene No.	113473	Strand	-
Start	5203	End	5386
Name	OJ990105_03.0419.C43.o2.tm	Method	TBLASTX:Maize
Start	572	End	4116
GI	none	Score	67
Exons	572..625, 576..629, 577..636, 2017..2130, 2027..2140, 2031..2141, 3930..4115, 3931..4116		

Seq. No.	54059	Seq. ID	OJ990105_03.0419.C43
Gene No.	113473	Strand	-
Start	5203	End	5386
Name	OJ990105_03.0419.C43.o1.tc	Method	TBLASTX:Cress
Start	577	End	5371
GI	none	Score	64
Exons	577..636, 2027..2161, 2029..2145, 4017..4115, 4018..4116, 4183..4224, 4184..4231, 4228..4299, 4229..4291, 4971..5054, 4979..5053, 5192..5371, 5193..5360		

Seq. No.	54059	Seq. ID	OJ990105_03.0419.C43
Gene No.	113473	Strand	-
Start	5203	End	5386
Name	OJ990105_03.0419.C43.o2.ts	Method	TBLASTX:Soybean
Start	577	End	4243
GI	none	Score	62
Exons	577..636, 2017..2145, 2027..2146, 4003..4116, 4023..4115, 4027..4119, 4183..4239, 4184..4243		

Seq. No.	54059	Seq. ID	OJ990105_03.0419.C43
Gene No.	113473	Strand	-
Start	5203	End	5386
Name	OJ990105_03.0419.C43.o1.tm	Method	TBLASTX:Maize
Start	4180	End	5386
GI	none	Score	191
Exons	4180..4296, 4181..4291, 4971..5054, 4981..5055, 4982..5053, 4983..5054, 5177..5368, 5192..5386, 5193..5372		

Seq. No.	54059	Seq. ID	OJ990105_03.0419.C43
Gene No.	113473	Strand	-
Start	5203	End	5386
Name	OJ990105_03.0419.C43.o1.gp	Method	AAT/GAP
Start	5203	End	5369
GI	12859_1.R1084	Score	277
Exons	5203..5369		
GI Descrip.	'3367596/emb|CAA20048| 2.0e-70 (AL031135) putative protein [Arabidopsis thaliana]'		

Seq. No.	54059	Seq. ID	OJ990105_03.0419.C43
Gene No.	113473	Strand	-
Start	5203	End	5386
Name	OJ990105_03.0419.C43.o1.ts	Method	TBLASTX:Soybean
Start	5207	End	5369
GI	none	Score	209
Exons	5207..5362, 5208..5363, 5209..5364, 5220..5369		

Seq. No.	54060	Seq. ID	OJ990105_03.0419.C45
Gene No.	113474	Strand	-
Start	493	End	1533
Name	OJ990105_03.0419.C45.o1.gs	Method	GENSCAN
Start	493	End	1479
GI	none	Score	.65
Exons	493..603, 631..771, 1328..1479		

Seq. No.	54060	Seq. ID	OJ990105_03.0419.C45
Gene No.	113474	Strand	-
Start	493	End	1533
Name	OJ990105_03.0419.C45.o1.gp	Method	AAT/GAP
Start	1172	End	1533
GI	30243_1.R1084	Score	411
Exons	1172..1211, 1328..1533		
GI Descrip.	'2275210 3.0e-09 (AC002337) peptidyl-prolyl cis-trans isomerase isolog [Arabidopsis thaliana]'		

Seq. No.	54060	Seq. ID	OJ990105_03.0419.C45
Gene No.	113474	Strand	-
Start	493	End	1533
Name	OJ990105_03.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	1325	End	1492
GI	none	Score	192
Exons	1325..1492, 1325..1486, 1327..1491		

Seq. No.	54061	Seq. ID	OJ990105_03.0419.C46
Gene No.	113475	Strand	-
Start	638	End	946

Name	OJ990105_03.0419.C46.o1.gs	Method	GENSCAN
Start	638	End	946
GI	none	Score	.64
Exons	638..849, 934..946		

Seq. No.	54062	Seq. ID	OJ990105_03.0419.C53
Gene No.	113476	Strand	-
Start	1	End	1233
Name	OJ990105_03.0419.C53.o1.np	Method	AAT/NAP
Start	1	End	1233
GI	2443320	Score	249
Exons	1..200, 1176..1233		
GI Descrip.	(D85597) polyprotein [Oryza australiensis]		

Seq. No.	54062	Seq. ID	OJ990105_03.0419.C53
Gene No.	113476	Strand	-
Start	1	End	1233
Name	OJ990105_03.0419.C53.o1.tw	Method	TBLASTX:Wheat
Start	11	End	208
GI	none	Score	188
Exons	11..196, 21..194, 26..208		

Seq. No.	54062	Seq. ID	OJ990105_03.0419.C53
Gene No.	113476	Strand	-
Start	1	End	1233
Name	OJ990105_03.0419.C53.o1.gp	Method	AAT/GAP
Start	388	End	923
GI	uC-osflcyp111c03a1	Score	862
Exons	388..856, 895..923		
GI Descrip.	'6069643/dbj|AP000616.1|AP000616 4.0e-11 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	54062	Seq. ID	OJ990105_03.0419.C53
Gene No.	113476	Strand	-
Start	1	End	1233
Name	OJ990105_03.0419.C53.o1.gs	Method	GENSCAN
Start	764	End	856
GI	none	Score	.88
Exons	764..856		

Seq. No.	54063	Seq. ID	OJ990105_03.0419.C54
Gene No.	113477	Strand	-
Start	2115	End	2175
Name	OJ990105_03.0419.C54.o1.gp	Method	AAT/GAP
Start	2115	End	2175
GI	30243_1.R1084	Score	95
Exons	2115..2175		
GI Descrip.	'2275210 3.0e-09 (AC002337) peptidyl-prolyl cis-trans isomerase isolog [Arabidopsis thaliana]'		

Seq. No.	54064	Seq. ID	OJ990105_03.0419.C56
Gene No.	113478	Strand	-
Start	1182	End	1996
Name	OJ990105_03.0419.C56.o1.gs	Method	GENSCAN
Start	1182	End	1996
GI	none	Score	.9
Exons	1182..1196, 1958..1996		

Seq. No.	54065	Seq. ID	OJ990105_03.0419.C59
Gene No.	113479	Strand	+
Start	5	End	98
Name	OJ990105_03.0419.C59.o1.gs	Method	GENSCAN
Start	5	End	98
GI	none	Score	.4
Exons	5..98		

Seq. No.	54065	Seq. ID	OJ990105_03.0419.C59
Gene No.	113480	Strand	
Start	124	End	812
Name	OJ990105_03.0419.C59.o1.tm	Method	TBLASTX:Maize
Start	124	End	812
GI	none	Score	172
Exons	124..165, 162..290, 170..292, 170..289, 487..540, 488..556, 489..554, 699..812, 702..761		

Seq. No.	54066	Seq. ID	OJ990105_03.0419.C64
Gene No.	113481	Strand	+
Start	1	End	5914
Name	OJ990105_03.0419.C64.o1.np	Method	AAT/NAP
Start	1	End	5914
GI	6598631	Score	1184
Exons	1..649, 1159..1254, 2064..2165, 2248..2355, 2449..2673, 2976..3242, 3327..3398, 4428..4724, 4996..5098, 5853..5914		
GI Descrip.	(AC006918) putative TPR repeat nuclear phosphoprotein [Arabidopsis thaliana]		

Seq. No.	54066	Seq. ID	OJ990105_03.0419.C64
Gene No.	113481	Strand	+
Start	1	End	5914
Name	OJ990105_03.0419.C64.o1.gs	Method	GENSCAN
Start	536	End	5106
GI	none	Score	.89
Exons	536..649, 1159..1254, 2064..2165, 2449..2673, 2976..3242, 3327..3398, 4428..4724, 4990..5106		

Seq. No.	54066	Seq. ID	OJ990105_03.0419.C64
Gene No.	113481	Strand	+
Start	1	End	5914
Name	OJ990105_03.0419.C64.o1.gp	Method	AAT/GAP
Start	602	End	2556
GI	3762369	Score	748
Exons	602..649, 1159..1254, 2064..2165, 2248..2355, 2449..2556		
GI Descrip.	4388717/gb|AAD19755| 3.0e-44 (AC006413) putative nuclear phosphoprotein (contains multiple TPR repeats prosite:QDOC50005) [Arabidopsis thaliana]		

Seq. No.	54066	Seq. ID	OJ990105_03.0419.C64
Gene No.	113481	Strand	+
Start	1	End	5914
Name	OJ990105_03.0419.C64.o2.gp	Method	AAT/GAP
Start	4469	End	5520
GI	23978_1.R1084	Score	1431
Exons	4469..4724, 4990..5520		
GI Descrip.	'4388717/gb|AAD19755| 3.0e-44 (AC006413) putative nuclear		

phosphoprotein (contains multiple TPR repeats prosite:QDOC50005) [Arabidopsis thaliana]'

Seq. No.	54066	Seq. ID	OJ990105_03.0419.C64
Gene No.	113482	Strand	-
Start	6631	End	10538
Name	OJ990105_03.0419.C64.o2.ts	Method	TBLASTX:Soybean
Start	506	End	2337
GI	none	Score	70
Exons	506..568, 516..566, 563..649, 565..639, 1132..1257, 1158..1244, 2057..2167, 2061..2171, 2246..2308, 2247..2309, 2248..2337		

Seq. No.	54066	Seq. ID	OJ990105_03.0419.C64
Gene No.	113482	Strand	-
Start	6631	End	10538
Name	OJ990105_03.0419.C64.o1.tm	Method	TBLASTX:Maize
Start	1161	End	3089
GI	none	Score	149
Exons	1161..1244, 1162..1248, 2061..2168, 2061..2165, 2063..2167, 2246..2344, 2247..2345, 2247..2348, 2248..2355, 2447..2671, 2448..2672, 2448..2675, 2449..2676, 2973..3089, 2975..3085		

Seq. No.	54066	Seq. ID	OJ990105_03.0419.C64
Gene No.	113482	Strand	-
Start	6631	End	10538
Name	OJ990105_03.0419.C64.o1.tc	Method	TBLASTX:Cress
Start	2112	End	2588
GI	none	Score	67
Exons	2112..2171, 2120..2167, 2125..2181, 2243..2329, 2245..2355, 2246..2386, 2248..2355, 2448..2588, 2449..2586		

Seq. No.	54066	Seq. ID	OJ990105_03.0419.C64
Gene No.	113482	Strand	-
Start	6631	End	10538
Name	OJ990105_03.0419.C64.o1.ts	Method	TBLASTX:Soybean
Start	2511	End	5091
GI	none	Score	251
Exons	2511..2678, 2512..2676, 2515..2688, 2516..2713, 2973..3077, 2975..3061, 3060..3137, 3062..3235, 3063..3245, 3324..3398, 3332..3406, 4617..4718, 4996..5091		

Seq. No.	54066	Seq. ID	OJ990105_03.0419.C64
Gene No.	113482	Strand	-
Start	6631	End	10538
Name	OJ990105_03.0419.C64.o2.tm	Method	TBLASTX:Maize
Start	3090	End	4481
GI	none	Score	200
Exons	3090..3245, 3091..3231, 3324..3398, 4428..4481		

Seq. No.	54066	Seq. ID	OJ990105_03.0419.C64
Gene No.	113482	Strand	-
Start	6631	End	10538
Name	OJ990105_03.0419.C64.o2.gs	Method	GENSCAN
Start	6631	End	10538
GI	none	Score	.73
Exons	6631..6758, 7538..7663, 7716..7813, 10481..10538		

Seq. No.	54067	Seq. ID	OJ990105_03.0419.C65
Gene No.	113483	Strand	+
Start	1	End	690
Name	OJ990105_03.0419.C65.o1.np	Method	AAT/NAP
Start	1	End	690
GI	2443320	Score	604
Exons	1..690		
GI Descrip.	(D85597) polyprotein [Oryza australiensis]		

Seq. No.	54067	Seq. ID	OJ990105_03.0419.C65
Gene No.	113483	Strand	+
Start	1	End	690
Name	OJ990105_03.0419.C65.o1.tw	Method	TBLASTX:Wheat
Start	169	End	651
GI	none	Score	76
Exons	169..255, 180..275, 256..471, 472..651	257..469, 469..627, 471..650,	

Seq. No.	54068	Seq. ID	OJ990105_03.0419.C69
Gene No.	113484	Strand	+
Start	339	End	431
Name	OJ990105_03.0419.C69.o1.gp	Method	AAT/GAP
Start	339	End	431
GI	5038915	Score	151
Exons	339..431		

Seq. No.	54068	Seq. ID	OJ990105_03.0419.C69
Gene No.	113485	Strand	+
Start	346	End	431
Name	OJ990105_03.0419.C69.o2.gp	Method	AAT/GAP
Start	346	End	431
GI	5038798	Score	139
Exons	346..431		

Seq. No.	54069	Seq. ID	OJ990105_03.0419.C71
Gene No.	113486	Strand	+
Start	50	End	474
Name	OJ990105_03.0419.C71.o1.gs	Method	GENSCAN
Start	50	End	474
GI	none	Score	.48
Exons	50..474		

Seq. No.	54070	Seq. ID	OJ990105_03.0419.C72
Gene No.	113487	Strand	+
Start	1	End	4018
Name	OJ990105_03.0419.C72.o1.np	Method	AAT/NAP
Start	1	End	2508
GI	7486654	Score	411
Exons	1..28, 104..289, 768..867, 1734..1814, 1912..1965, 2215..2346, 2437..2508		
GI Descrip.	hypothetical protein F8D20.290 - Arabidopsis thaliana gi|3367596|emb|CAA20048.1| (AL031135) putative protein [Arabidopsis thaliana] gi|7270530|emb|CAB81487.1| (AL161588) putative protein [Arabidopsis thaliana]		

Seq. No.	54070	Seq. ID	OJ990105_03.0419.C72
Gene No.	113487	Strand	+

Start	1	End	4018
Name	OJ990105_03.0419.C72.o1.gs	Method	GENSCAN
Start	73	End	4018
GI	none	Score	.84
Exons	73..78, 772..867, 1722..1814, 1912..1965, 2215..2346, 2578..2679, 3377..4018		

Seq. No.	54070	Seq. ID	OJ990105_03.0419.C72
Gene No.	113487	Strand	+
Start	1	End	4018
Name	OJ990105_03.0419.C72.o1.gp	Method	AAT/GAP
Start	129	End	2758
GI	12859_1.R1084	Score	1372
Exons	129..287, 769..867, 1734..1814, 1912..1965, 2215..2346, 2440..2758		
GI Descrip.	'3367596/emb|CAA20048| 2.0e-70 (AL031135) putative protein [Arabidopsis thaliana]'		

Seq. No.	54070	Seq. ID	OJ990105_03.0419.C72
Gene No.	113488	Strand	+
Start	4833	End	5708
Name	OJ990105_03.0419.C72.o2.gs	Method	GENSCAN
Start	4833	End	5708
GI	none	Score	.98
Exons	4833..5708		

Seq. No.	54070	Seq. ID	OJ990105_03.0419.C72
Gene No.	113488	Strand	+
Start	4833	End	5708
Name	OJ990105_03.0419.C72.o2.gp	Method	AAT/GAP
Start	4885	End	5451
GI	17684_1.R1084	Score	1130
Exons	4885..5451		
GI Descrip.	'549736/sp|P36049|YKR2_YEAST 2.0e-13 HYPOTHETICAL 49.7 KD PROTEIN IN GIN2-STE3 INTERGENIC REGION >gi_539212_pir__S38002 hypothetical protein YKL172w - yeast (Saccharomyces cerevisiae) >gi_407510_emb_CAA81515_ (Z26878) unknown [Saccharomyces cerevisiae] >gi_486302_emb_CAA82014_ (Z28172) ORF YKL172w [Saccharomyces cerevisiae] >gi_1582533_prf__2118403G ORF [Saccharomyces cerevisiae]'		

Seq. No.	54070	Seq. ID	OJ990105_03.0419.C72
Gene No.	113489	Strand	+
Start	5745	End	6002
Name	OJ990105_03.0419.C72.o3.gp	Method	AAT/GAP
Start	5745	End	6002
GI	3768953	Score	453
Exons	5745..6002		

Seq. No.	54070	Seq. ID	OJ990105_03.0419.C72
Gene No.	113490	Strand	+
Start	8102	End	14472
Name	OJ990105_03.0419.C72.o2.tm	Method	TBLASTX:Maize
Start	4932	End	5246
GI	none	Score	451
Exons	4932..5243, 4959..5246, 4964..5245		

Seq. No.	54070	Seq. ID	OJ990105_03.0419.C72
Gene No.	113490	Strand	+
Start	8102	End	14472
Name	OJ990105_03.0419.C72.o1.tm	Method	TBLASTX:Maize
Start	5348	End	5724
GI	none	Score	110
Exons	5348..5506, 5356..5724, 5385..5699, 5561..5707		

Seq. No.	54070	Seq. ID	OJ990105_03.0419.C72
Gene No.	113490	Strand	+
Start	8102	End	14472
Name	OJ990105_03.0419.C72.o1.tc	Method	TBLASTX:Cress
Start	5385	End	5699
GI	none	Score	81
Exons	5385..5435, 5390..5428, 5499..5576, 5501..5533, 5561..5668, 5565..5699, 5565..5648, 5581..5658		

Seq. No.	54070	Seq. ID	OJ990105_03.0419.C72
Gene No.	113490	Strand	+
Start	8102	End	14472
Name	OJ990105_03.0419.C72.o1.tw	Method	TBLASTX:Wheat
Start	5385	End	5719
GI	none	Score	147
Exons	5385..5471, 5390..5437, 5442..5471, 5476..5658, 5478..5699, 5558..5719, 5665..5718		

Seq. No.	54070	Seq. ID	OJ990105_03.0419.C72
Gene No.	113490	Strand	+
Start	8102	End	14472
Name	OJ990105_03.0419.C72.o3.gs	Method	GENSCAN
Start	8102	End	14472
GI	none	Score	.71
Exons	8102..8111, 10881..11083, 11832..11923, 14082..14472		

Seq. No.	54070	Seq. ID	OJ990105_03.0419.C72
Gene No.	113490	Strand	+
Start	8102	End	14472
Name	OJ990105_03.0419.C72.o3.np	Method	AAT/NAP
Start	10289	End	10427
GI	5852093	Score	72
Exons	10289..10427		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	54071	Seq. ID	OJ990105_03.0419.C73
Gene No.	113491	Strand	-
Start	1528	End	4063
Name	OJ990105_03.0419.C73.o1.gs	Method	GENSCAN
Start	1528	End	4063
GI	none	Score	.46
Exons	1528..1686, 2349..2555, 2698..2892, 3092..3296, 4020..4063		

Seq. No.	54072	Seq. ID	OJ990105_03.0419.C74
Gene No.	113492	Strand	-
Start	1862	End	2055
Name	OJ990105_03.0419.C74.o1.gs	Method	GENSCAN
Start	1862	End	2055
GI	none	Score	.62

Exons	1862..2055		
Seq. No.	54072	Seq. ID	OJ990105_03.0419.C74
Gene No.	113493	Strand	-
Start	3230	End	3483
Name	OJ990105_03.0419.C74.o2.gs	Method	GENSCAN
Start	3230	End	3483
GI	none	Score	.57
Exons	3230..3322, 3334..3483		
Seq. No.	54073	Seq. ID	OJ990105_03.0419.C78
Gene No.	113494	Strand	+
Start	616	End	1146
Name	OJ990105_03.0419.C78.o1.gp	Method	AAT/GAP
Start	616	End	1146
GI	23978_1.R1084	Score	989
Exons	616..1146		
GI Descrip.	'4388717/gb|AAD19755| 3.0e-44 (AC006413) putative nuclear phosphoprotein (contains multiple TPR repeats prosite:QDOC50005) [Arabidopsis thaliana]'		
Seq. No.	54073	Seq. ID	OJ990105_03.0419.C78
Gene No.	113494	Strand	+
Start	616	End	1146
Name	OJ990105_03.0419.C78.o1.gs	Method	GENSCAN
Start	616	End	732
GI	none	Score	.85
Exons	616..732		
Seq. No.	54074	Seq. ID	OJ990105_03.0419.C80
Gene No.	113495	Strand	+
Start	2828	End	5035
Name	OJ990105_03.0419.C80.o1.np	Method	AAT/NAP
Start	2828	End	4721
GI	7489278	Score	864
Exons	2828..2850, 4025..4721		
GI Descrip.	thioredoxin-like protein CDSP32, chloroplast - potato gi|2582822|emb|CAA71103.1| (Y09987) CDSP32 protein (Chloroplast Drought-induced Stress Protein of 32kDa) [Solanum tuberosum]		
Seq. No.	54074	Seq. ID	OJ990105_03.0419.C80
Gene No.	113495	Strand	+
Start	2828	End	5035
Name	OJ990105_03.0419.C80.o2.gs	Method	GENSCAN
Start	3816	End	4721
GI	none	Score	.98
Exons	3816..4721		
Seq. No.	54074	Seq. ID	OJ990105_03.0419.C80
Gene No.	113495	Strand	+
Start	2828	End	5035
Name	OJ990105_03.0419.C80.o1.gp	Method	AAT/GAP
Start	3868	End	5035
GI	896_2.R1084	Score	2262
Exons	3868..5035		
GI Descrip.	'2582822/emb|CAA71103| 2.0e-96 (Y09987) CDSP32 protein (Chloroplast Drought-induced Stress Protein of 32kDa) [Solanum		

tuberosum]'

Seq. No.	54074	Seq. ID	OJ990105_03.0419.C80
Gene No.	113495	Strand	+
Start	2828	End	5035
Name	OJ990105_03.0419.C80.o2.gp	Method	AAT/GAP
Start	3955	End	5035
GI	896_2.R1084	Score	2114
Exons	3955..5035		
GI Descrip.	'2582822/emb|CAA71103| 2.0e-96 (Y09987) CDSP32 protein (Chloroplast Drought-induced Stress Protein of 32kDa) [Solanum tuberosum]'		

Seq. No.	54074	Seq. ID	OJ990105_03.0419.C80
Gene No.	113496	Strand	+
Start	8245	End	8713
Name	OJ990105_03.0419.C80.o4.gp	Method	AAT/GAP
Start	8245	End	8713
GI	2800816	Score	517
Exons	8245..8266, 8345..8713		
GI Descrip.	984755/emb|Z54153|OSCHINDPR 4.0e-20 O.sativa mRNA for chilling-inducible protein		

Seq. No.	54074	Seq. ID	OJ990105_03.0419.C80
Gene No.	113497	Strand	+
Start	9521	End	9970
Name	OJ990105_03.0419.C80.o4.gs	Method	GENSCAN
Start	9521	End	9970
GI	none	Score	.71
Exons	9521..9970		

Seq. No.	54074	Seq. ID	OJ990105_03.0419.C80
Gene No.	113498	Strand	-
Start	456	End	944
Name	OJ990105_03.0419.C80.o1.gs	Method	GENSCAN
Start	456	End	944
GI	none	Score	.81
Exons	456..944		

Seq. No.	54074	Seq. ID	OJ990105_03.0419.C80
Gene No.	113499	Strand	-
Start	6019	End	8480
Name	OJ990105_03.0419.C80.o2.tm	Method	TBLASTX:Maize
Start	3814	End	4273
GI	none	Score	222
Exons	3814..3843, 3953..3994, 4026..4097, 4029..4205, 4118..4201, 4208..4273, 4209..4271, 4222..4272		

Seq. No.	54074	Seq. ID	OJ990105_03.0419.C80
Gene No.	113499	Strand	-
Start	6019	End	8480
Name	OJ990105_03.0419.C80.o1.tc	Method	TBLASTX:Cress
Start	4026	End	4720
GI	none	Score	310
Exons	4026..4295, 4118..4294, 4293..4448, 4301..4423, 4416..4718, 4472..4720		

Seq. No.	54074	Seq. ID	OJ990105_03.0419.C80
Gene No.	113499	Strand	-
Start	6019	End	8480
Name	OJ990105_03.0419.C80.o1.ts	Method	TBLASTX:Soybean
Start	4029	End	4720
GI	none	Score	474
Exons	4029..4424, 4092..4352, 4118..4420, 4416..4523, 4437..4523, 4526..4720, 4527..4718		

Seq. No.	54074	Seq. ID	OJ990105_03.0419.C80
Gene No.	113499	Strand	-
Start	6019	End	8480
Name	OJ990105_03.0419.C80.o1.tm	Method	TBLASTX:Maize
Start	4274	End	4720
GI	none	Score	139
Exons	4274..4357, 4275..4358, 4362..4718, 4364..4720		

Seq. No.	54074	Seq. ID	OJ990105_03.0419.C80
Gene No.	113499	Strand	-
Start	6019	End	8480
Name	OJ990105_03.0419.C80.o3.gs	Method	GENSCAN
Start	6019	End	8471
GI	none	Score	.83
Exons	6019..6108, 6370..6439, 6866..6929, 7621..7708, 8135..8230, 8361..8471		

Seq. No.	54074	Seq. ID	OJ990105_03.0419.C80
Gene No.	113499	Strand	-
Start	6019	End	8480
Name	OJ990105_03.0419.C80.o2.np	Method	AAT/NAP
Start	6037	End	8471
GI	7523702	Score	320
Exons	6037..6108, 6194..6295, 6591..6664, 6866..6929, 7621..7708, 8135..8230, 8361..8471		
GI Descrip.	(AC011001) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54074	Seq. ID	OJ990105_03.0419.C80
Gene No.	113499	Strand	-
Start	6019	End	8480
Name	OJ990105_03.0419.C80.o3.tm	Method	TBLASTX:Maize
Start	6194	End	8480
GI	none	Score	106
Exons	6194..6286, 6194..6286, 6366..6440, 6369..6431, 6865..6936, 6866..6952, 7563..7709, 7604..7708, 7624..7716, 8132..8230, 8133..8231, 8135..8233, 8354..8398, 8355..8480, 8382..8471, 8410..8472		

Seq. No.	54075	Seq. ID	OJ990105_03.0419.C81
Gene No.	113500	Strand	+
Start	1	End	1542
Name	OJ990105_03.0419.C81.o1.np	Method	AAT/NAP
Start	1	End	1542
GI	2443320	Score	2348
Exons	1..1542		
GI Descrip.	(D85597) polyprotein [Oryza australiensis]		

Seq. No.	54075	Seq. ID	OJ990105_03.0419.C81

Gene No.	113500	Strand	+
Start	1	End	1542
Name	OJ990105_03.0419.C81.o1.ts	Method	TBLASTX:Soybean
Start	19	End	468
GI	5509260	Score	344
Exons	19..468, 19..249, 66..269, 303..467		
GI Descrip.	-		

Seq. No.	54075	Seq. ID	OJ990105_03.0419.C81
Gene No.	113500	Strand	+
Start	1	End	1542
Name	OJ990105_03.0419.C81.o1.tc	Method	TBLASTX:Cress
Start	102	End	366
GI	none	Score	231
Exons	102..278, 103..366		

Seq. No.	54075	Seq. ID	OJ990105_03.0419.C81
Gene No.	113500	Strand	+
Start	1	End	1542
Name	OJ990105_03.0419.C81.o1.tw	Method	TBLASTX:Wheat
Start	141	End	942
GI	none	Score	482
Exons	141..488, 142..492, 286..492, 287..502, 462..941, 478..942		

Seq. No.	54075	Seq. ID	OJ990105_03.0419.C81
Gene No.	113500	Strand	+
Start	1	End	1542
Name	OJ990105_03.0419.C81.o1.tm	Method	TBLASTX:Maize
Start	147	End	579
GI	none	Score	331
Exons	147..512, 166..579		

Seq. No.	54075	Seq. ID	OJ990105_03.0419.C81
Gene No.	113500	Strand	+
Start	1	End	1542
Name	OJ990105_03.0419.C81.o2.tm	Method	TBLASTX:Maize
Start	904	End	1491
GI	none	Score	196
Exons	904..1278, 1297..1491		

Seq. No.	54075	Seq. ID	OJ990105_03.0419.C81
Gene No.	113500	Strand	+
Start	1	End	1542
Name	OJ990105_03.0419.C81.o2.ts	Method	TBLASTX:Soybean
Start	913	End	1407
GI	none	Score	219
Exons	913..1275, 1303..1407		

Seq. No.	54075	Seq. ID	OJ990105_03.0419.C81
Gene No.	113500	Strand	+
Start	1	End	1542
Name	OJ990105_03.0419.C81.o2.tw	Method	TBLASTX:Wheat
Start	1015	End	1503
GI	none	Score	589
Exons	1015..1503, 1016..1351, 1020..1502		

Seq. No.	54076	Seq. ID	OJ990105_03.0419.C82

Gene No.	113501	Strand	+
Start	80	End	876
Name	OJ990105_03.0419.C82.o1.gs	Method	GENSCAN
Start	80	End	876
GI	none	Score	.5
Exons	80..105, 782..876		

Seq. No.	54077	Seq. ID	OJ990715_03.0419.C2
Gene No.	113502	Strand	-
Start	267	End	474
Name	OJ990715_03.0419.C2.o1.gp	Method	AAT/GAP
Start	267	End	474
GI	none	Score	368
Exons	267..474		

Seq. No.	54077	Seq. ID	OJ990715_03.0419.C2
Gene No.	113503	Strand	-
Start	711	End	2139
Name	OJ990715_03.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	528	End	2119
GI	none	Score	119
Exons	528..545, 628..681, 693..827, 703..828, 705..827, 885..1007, 899..1009, 900..1007, 901..1008, 1141..1239, 1176..1238, 1322..1462, 1323..1466, 1539..1736, 1548..1736, 1550..1738, 1550..1738, 1820..1909, 1821..1907, 1821..1913, 1822..1908, 1823..1912, 1994..2119, 1995..2117, 1996..2118		

Seq. No.	54077	Seq. ID	OJ990715_03.0419.C2
Gene No.	113503	Strand	-
Start	711	End	2139
Name	OJ990715_03.0419.C2.o2.gp	Method	AAT/GAP
Start	559	End	1234
GI	44647_1.R1084	Score	816
Exons	559..824, 902..1006, 1176..1234		
GI Descrip.	'3193292 4.0e-30 (AF069298) similar to ATPases associated with various cellular activites (Pfam: AAA.hmm, score: 230.91) [Arabidopsis thaliana]'		

Seq. No.	54077	Seq. ID	OJ990715_03.0419.C2
Gene No.	113503	Strand	-
Start	711	End	2139
Name	OJ990715_03.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	698	End	2119
GI	none	Score	83
Exons	698..826, 699..827, 699..827, 712..828, 899..1009, 900..1007, 901..1008, 1174..1239, 1176..1238, 1322..1462, 1323..1466, 1548..1736, 1548..1736, 1550..1738, 1565..1744, 1820..1909, 1821..1907, 1823..1909, 1994..2119, 1998..2117		

Seq. No.	54077	Seq. ID	OJ990715_03.0419.C2
Gene No.	113503	Strand	-
Start	711	End	2139
Name	OJ990715_03.0419.C2.o1.tc	Method	TBLASTX:Cress
Start	701	End	1883
GI	none	Score	88
Exons	701..826, 705..794, 705..827, 712..825, 712..828, 899..1009, 900..1007, 1165..1242, 1165..1236, 1176..1238, 1321..1458,		

1322..1462, 1323..1466, 1548..1736, 1548..1709, 1550..1738, 1559..1744, 1820..1882, 1821..1883

Seq. No.	54077	Seq. ID	OJ990715_03.0419.C2
Gene No.	113503	Strand	-
Start	711	End	2139
Name	OJ990715_03.0419.C2.o1.gs	Method	GENSCAN
Start	711	End	2116
GI	none	Score	.84
Exons	711..824, 902..1006, 1176..1235, 1322..1460, 1551..1735, 1823..1906, 1994..2116		

Seq. No.	54077	Seq. ID	OJ990715_03.0419.C2
Gene No.	113503	Strand	-
Start	711	End	2139
Name	OJ990715_03.0419.C2.o1.np	Method	AAT/NAP
Start	714	End	2116
GI	7487016	Score	1007
Exons	714..824, 902..1006, 1176..1235, 1322..1460, 1551..1735, 1823..1906, 1994..2116		
GI Descrip.	hypothetical protein T14P8.7 - Arabidopsis thaliana gi|3193292|gb|AAC19276.1| (AF069298) similar to ATPases associated with various cellular activites (Pfam: AAA.hmm, score: 230.91) [Arabidopsis thaliana] gi|7269007|emb|CAB80740.1| (AL161494) coded for by A. thaliana cDNA T88606, coded for by A. thaliana cDNA T75804; strong similarity to similar to ATPases associated with v		

Seq. No.	54077	Seq. ID	OJ990715_03.0419.C2
Gene No.	113503	Strand	-
Start	711	End	2139
Name	OJ990715_03.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	804	End	1738
GI	none	Score	40
Exons	804..827, 805..828, 899..1006, 900..1007, 1141..1239, 1165..1236, 1179..1238, 1308..1457, 1310..1462, 1322..1462, 1323..1466, 1539..1733, 1550..1738, 1550..1738		

Seq. No.	54077	Seq. ID	OJ990715_03.0419.C2
Gene No.	113503	Strand	-
Start	711	End	2139
Name	OJ990715_03.0419.C2.o2.tw	Method	TBLASTX:Wheat
Start	1865	End	2139
GI	none	Score	79
Exons	1865..1909, 1866..1907, 1869..1913, 1994..2119, 1995..2117, 2071..2139		

Seq. No.	54077	Seq. ID	OJ990715_03.0419.C2
Gene No.	113503	Strand	-
Start	711	End	2139
Name	OJ990715_03.0419.C2.o2.tc	Method	TBLASTX:Cress
Start	1884	End	2133
GI	none	Score	49
Exons	1884..1907, 1886..1909, 1994..2119, 1995..2117, 1996..2133		

Seq. No.	54078	Seq. ID	OJ990715_03.0419.C4
Gene No.	113504	Strand	+

Start	244	End	716
Name	OJ990715_03.0419.C4.o1.gs	Method	GENSCAN
Start	244	End	716
GI	none	Score	.62
Exons	244..391, 589..716		

Seq. No.	54078	Seq. ID	OJ990715_03.0419.C4
Gene No.	113505	Strand	-
Start	545	End	952
Name	OJ990715_03.0419.C4.o1.gp	Method	AAT/GAP
Start	545	End	952
GI	371_1.R1084	Score	602
Exons	545..952		
GI Descrip.	'549063/sp|P35681|TCTP_ORYSA 1.0e-86 TRANSLATIONALLY CONTROLLED TUMOR PROTEIN HOMOLOG (TCTP) >gi_1072464_pir__A38958 IgE-dependent histamine-releasing factor homolog - rice >gi_303835_dbj_BAA02151_ (D12626) 21kd polypeptide [Oryza sativa]'		

Seq. No.	54078	Seq. ID	OJ990715_03.0419.C4
Gene No.	113505	Strand	-
Start	545	End	952
Name	OJ990715_03.0419.C4.o1.tw	Method	TBLASTX:Wheat
Start	718	End	917
GI	none	Score	61
Exons	718..768, 719..769, 799..915, 803..916, 804..917		

Seq. No.	54078	Seq. ID	OJ990715_03.0419.C4
Gene No.	113505	Strand	-
Start	545	End	952
Name	OJ990715_03.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	728	End	917
GI	none	Score	100
Exons	728..916, 804..917, 804..917		

Seq. No.	54078	Seq. ID	OJ990715_03.0419.C4
Gene No.	113505	Strand	-
Start	545	End	952
Name	OJ990715_03.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	728	End	917
GI	none	Score	108
Exons	728..916, 804..917, 804..917		

Seq. No.	54078	Seq. ID	OJ990715_03.0419.C4
Gene No.	113505	Strand	-
Start	545	End	952
Name	OJ990715_03.0419.C4.o1.np	Method	AAT/NAP
Start	803	End	952
GI	549063	Score	189
Exons	803..952		
GI Descrip.	TRANSLATIONALLY CONTROLLED TUMOR PROTEIN HOMOLOG (TCTP) gi|1072464|pir||A38958 IgE-dependent histamine-releasing factor homolog - rice gi|303835|dbj|BAA02151.1| (D12626) 21kd polypeptide [Oryza sativa]		

Seq. No.	54079	Seq. ID	OJ990715_03.0419.C5
Gene No.	113506	Strand	+

Start	1	End	664
Name	OJ990715_03.0419.C5.o1.np	Method	AAT/NAP
Start	1	End	664
GI	5852093	Score	44
Exons	1..33, 534..664		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	54080	Seq. ID	OJ990715_03.0419.C7
Gene No.	113507	Strand	+
Start	1649	End	1825
Name	OJ990715_03.0419.C7.o1.gs	Method	GENSCAN
Start	1649	End	1825
GI	none	Score	.49
Exons	1649..1825		

Seq. No.	54080	Seq. ID	OJ990715_03.0419.C7
Gene No.	113508	Strand	-
Start	656	End	1846
Name	OJ990715_03.0419.C7.o1.np	Method	AAT/NAP
Start	656	End	1217
GI	7105717	Score	144
Exons	656..738, 869..972, 1044..1217		
GI Descrip.	(AF029256) plasma membrane proton ATPase [Kosteletzkya virginica]		

Seq. No.	54080	Seq. ID	OJ990715_03.0419.C7
Gene No.	113508	Strand	-
Start	656	End	1846
Name	OJ990715_03.0419.C7.o1.gp	Method	AAT/GAP
Start	1009	End	1846
GI	95509_1.R1084	Score	736
Exons	1009..1138, 1299..1359, 1610..1846		
GI Descrip.	'3377517/gb|AAC28086.1| 2.0e-25 (AF073361) nitrate transporter NTL1 [Arabidopsis thaliana]'		

Seq. No.	54081	Seq. ID	OJ990715_03.0419.C10
Gene No.	113509	Strand	-
Start	1	End	702
Name	OJ990715_03.0419.C10.o1.gp	Method	AAT/GAP
Start	1	End	493
GI	14531_1.R1084	Score	268
Exons	1..38, 193..261, 403..493		
GI Descrip.	'5803272/dbj|BAA83582.1| 9.0e-53 (AP000399) ESTs AU055950(S20175),C73125(E2952), AU055951(S20175) correspond to a region of the predicted gene; similar to acyl-ACP thioesterase (U92878) [Oryza sativa]'		

Seq. No.	54081	Seq. ID	OJ990715_03.0419.C10
Gene No.	113509	Strand	-
Start	1	End	702
Name	OJ990715_03.0419.C10.o1.np	Method	AAT/NAP
Start	1	End	702
GI	5803272	Score	270
Exons	1..33, 181..261, 403..600, 656..702		
GI Descrip.	(AP000399) ESTs AU055950(S20175),C73125(E2952), AU055951(S20175) correspond to a region of the predicted gene; similar to acyl-ACP thioesterase (U92878) [Oryza sativa]		

Seq. No.	54081	Seq. ID	OJ990715_03.0419.C10
Gene No.	113509	Strand	-
Start	1	End	702
Name	OJ990715_03.0419.C10.o1.tm	Method	TBLASTX:Maize
Start	193	End	624
GI	none	Score	65
Exons	193..255, 193..255, 194..256, 404..592	398..592,	403..624, 403..591,

Seq. No.	54081	Seq. ID	OJ990715_03.0419.C10
Gene No.	113509	Strand	-
Start	1	End	702
Name	OJ990715_03.0419.C10.o1.gs	Method	GENSCAN
Start	403	End	589
GI	none	Score	.95
Exons	403..589		

Seq. No.	54082	Seq. ID	OJ990715_03.0419.C11
Gene No.	113510	Strand	-
Start	1	End	1450
Name	OJ990715_03.0419.C11.o1.np	Method	AAT/NAP
Start	1	End	1450
GI	5803272	Score	400
Exons	1..21, 1048..1199, 1303..1450		
GI Descrip.	(AP000399) ESTs AU055950(S20175),C73125(E2952), AU055951(S20175) correspond to a region of the predicted gene; similar to acyl-ACP thioesterase (U92878) [Oryza sativa]		

Seq. No.	54082	Seq. ID	OJ990715_03.0419.C11
Gene No.	113510	Strand	-
Start	1	End	1450
Name	OJ990715_03.0419.C11.o1.gs	Method	GENSCAN
Start	1035	End	1437
GI	none	Score	.4
Exons	1035..1199, 1303..1437		

Seq. No.	54082	Seq. ID	OJ990715_03.0419.C11
Gene No.	113510	Strand	-
Start	1	End	1450
Name	OJ990715_03.0419.C11.o1.tm	Method	TBLASTX:Maize
Start	1054	End	1449
GI	none	Score	130
Exons	1054..1209, 1065..1202, 1065..1217, 1066..1230, 1289..1447, 1300..1449, 1303..1449		

Seq. No.	54082	Seq. ID	OJ990715_03.0419.C11
Gene No.	113510	Strand	-
Start	1	End	1450
Name	OJ990715_03.0419.C11.o1.ts	Method	TBLASTX:Soybean
Start	1055	End	1449
GI	none	Score	72
Exons	1055..1204, 1065..1205, 1065..1217, 1066..1206, 1289..1444, 1301..1438, 1303..1449		

Seq. No.	54082	Seq. ID	OJ990715_03.0419.C11
Gene No.	113510	Strand	-

Start	1	End	1450
Name	OJ990715_03.0419.C11.o1.tc	Method	TBLASTX:Cress
Start	1062	End	1449
GI	none	Score	91
Exons	1062..1205, 1063..1206, 1065..1205, 1298..1441, 1300..1443, 1303..1449		

Seq. No.	54082	Seq. ID	OJ990715_03.0419.C11
Gene No.	113510	Strand	-
Start	1	End	1450
Name	OJ990715_03.0419.C11.o1.tw	Method	TBLASTX:Wheat
Start	1065	End	1428
GI	none	Score	111
Exons	1065..1202, 1066..1203, 1300..1428		

Seq. No.	54083	Seq. ID	OJ990715_03.0419.C20
Gene No.	113511	Strand	+
Start	288	End	688
Name	OJ990715_03.0419.C20.o1.gs	Method	GENSCAN
Start	288	End	688
GI	none	Score	.72
Exons	288..339, 573..688		

Seq. No.	54084	Seq. ID	OJ990715_03.0419.C24
Gene No.	113512	Strand	+
Start	143	End	333
Name	OJ990715_03.0419.C24.o1.gs	Method	GENSCAN
Start	143	End	333
GI	none	Score	.58
Exons	143..333		

Seq. No.	54085	Seq. ID	OJ990715_03.0419.C30
Gene No.	113513	Strand	+
Start	921	End	985
Name	OJ990715_03.0419.C30.o1.gs	Method	GENSCAN
Start	921	End	985
GI	none	Score	.97
Exons	921..985		

Seq. No.	54086	Seq. ID	OJ990525_03.0419.C2
Gene No.	113514	Strand	+
Start	698	End	930
Name	OJ990525_03.0419.C2.o1.gs	Method	GENSCAN
Start	698	End	930
GI	none	Score	.47
Exons	698..930		

Seq. No.	54087	Seq. ID	OJ990525_03.0419.C4
Gene No.	113515	Strand	-
Start	763	End	2947
Name	OJ990525_03.0419.C4.o1.gs	Method	GENSCAN
Start	763	End	2947
GI	none	Score	.41
Exons	763..915, 2939..2947		

Seq. No.	54088	Seq. ID	OJ990525_03.0419.C6
Gene No.	113516	Strand	+

Start	1026	End	2093
Name	OJ990525_03.0419.C6.o1.gs	Method	GENSCAN
Start	1026	End	2093
GI	none	Score	.59
Exons	1026..1156, 2056..2093		

Seq. No.	54089	Seq. ID	OJ990525_03.0419.C7
Gene No.	113517	Strand	-
Start	7062	End	7158
Name	OJ990525_03.0419.C7.o2.gs	Method	GENSCAN
Start	7062	End	7158
GI	none	Score	.84
Exons	7062..7158		

Seq. No.	54090	Seq. ID	OJ990525_03.0419.C8
Gene No.	113518	Strand	-
Start	374	End	945
Name	OJ990525_03.0419.C8.o1.gs	Method	GENSCAN
Start	374	End	945
GI	none	Score	.46
Exons	374..502, 818..945		

Seq. No.	54091	Seq. ID	OJ990525_03.0419.C9
Gene No.	113519	Strand	+
Start	446	End	6204
Name	OJ990525_03.0419.C9.o1.tm	Method	TBLASTX:Maize
Start	438	End	4778
GI	none	Score	77
Exons	438..500, 445..498, 447..497, 448..498, 1308..1385, 1308..1385, 1312..1386, 1314..1385, 1316..1387, 1316..1387, 1459..1599, 1501..1572, 1501..1560, 2092..2286, 2095..2253, 2137..2289, 3156..3206, 3156..3206, 3156..3209, 3794..3880, 3794..3889, 3808..3900, 3808..3891, 4551..4748, 4552..4713, 4742..4774, 4743..4778		

Seq. No.	54091	Seq. ID	OJ990525_03.0419.C9
Gene No.	113519	Strand	+
Start	446	End	6204
Name	OJ990525_03.0419.C9.o1.gp	Method	AAT/GAP
Start	446	End	1585
GI	12131_1.R1084	Score	310
Exons	446..497, 1314..1387, 1503..1585		
GI Descrip.	'2505868/emb|CAA72906| 2.0e-21 (Y12227) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	54091	Seq. ID	OJ990525_03.0419.C9
Gene No.	113519	Strand	+
Start	446	End	6204
Name	OJ990525_03.0419.C9.o1.np	Method	AAT/NAP
Start	995	End	4662
GI	2065019	Score	224
Exons	995..1033, 1310..1387, 1503..1604, 2103..2246, 3155..3206, 3809..3882, 4554..4662		
GI Descrip.	(Y09823) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54091	Seq. ID	OJ990525_03.0419.C9
Gene No.	113519	Strand	+

Start	446	End	6204
Name	OJ990525_03.0419.C9.o1.gs	Method	GENSCAN
Start	1503	End	6204
GI	none	Score	.53
Exons	1503..1592, 2103..2246, 3155..3243, 5978..6204		

Seq. No.	54091	Seq. ID	OJ990525_03.0419.C9
Gene No.	113519	Strand	+
Start	446	End	6204
Name	OJ990525_03.0419.C9.o2.gp	Method	AAT/GAP
Start	2099	End	4975
GI	2289_1.R1084	Score	1018
Exons	2099..2246, 3155..3206, 3809..3882, 4554..4643, 4763..4975		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	54092	Seq. ID	OJ990525_03.0419.C12
Gene No.	113520	Strand	-
Start	1864	End	2723
Name	OJ990525_03.0419.C12.o1.gs	Method	GENSCAN
Start	1864	End	2723
GI	none	Score	.59
Exons	1864..1988, 2594..2723		

Seq. No.	54093	Seq. ID	OJ990525_03.0419.C14
Gene No.	113521	Strand	+
Start	1158	End	1875
Name	OJ990525_03.0419.C14.o1.gs	Method	GENSCAN
Start	1158	End	1875
GI	none	Score	.57
Exons	1158..1273, 1330..1441, 1692..1875		

Seq. No.	54093	Seq. ID	OJ990525_03.0419.C14
Gene No.	113522	Strand	+
Start	3220	End	3623
Name	OJ990525_03.0419.C14.o1.gp	Method	AAT/GAP
Start	3220	End	3623
GI	4715500	Score	785
Exons	3220..3623		
GI Descrip.	3377517/gb|AAC28086.1| 2.0e-25 (AF073361) nitrate transporter NTL1 [Arabidopsis thaliana]		

Seq. No.	54093	Seq. ID	OJ990525_03.0419.C14
Gene No.	113523	Strand	-
Start	1	End	1838
Name	OJ990525_03.0419.C14.o1.np	Method	AAT/NAP
Start	1	End	1838
GI	7523517	Score	223
Exons	1..48, 1328..1376, 1527..1838		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	54093	Seq. ID	OJ990525_03.0419.C14
Gene No.	113524	Strand	-
Start	3505	End	3623
Name	OJ990525_03.0419.C14.o2.np	Method	AAT/NAP
Start	3505	End	3623
GI	3377517	Score	121

Exons	3505..3623		
GI Descrip.	(AF073361) nitrate transporter NTL1 [Arabidopsis thaliana]		
Seq. No.	54094	Seq. ID	OJ990525_03.0419.C15
Gene No.	113525	Strand	+
Start	3770	End	5146
Name	OJ990525_03.0419.C15.o2.gs	Method	GENSCAN
Start	3770	End	5146
GI	none	Score	.47
Exons	3770..3820, 4139..4209, 4960..5146		
Seq. No.	54094	Seq. ID	OJ990525_03.0419.C15
Gene No.	113526	Strand	-
Start	1	End	2717
Name	OJ990525_03.0419.C15.o1.np	Method	AAT/NAP
Start	1	End	2407
GI	6358808	Score	961
Exons	1..1110, 2287..2407		
GI Descrip.	(AC010675) nitrate transporter (NTL1) [Arabidopsis thaliana]		
Seq. No.	54094	Seq. ID	OJ990525_03.0419.C15
Gene No.	113526	Strand	-
Start	1	End	2717
Name	OJ990525_03.0419.C15.o1.tc	Method	TBLASTX:Cress
Start	53	End	1041
GI	none	Score	253
Exons	53..421, 54..365, 592..954, 600..953, 970..1041, 975..1031		
Seq. No.	54094	Seq. ID	OJ990525_03.0419.C15
Gene No.	113526	Strand	-
Start	1	End	2717
Name	OJ990525_03.0419.C15.o2.ts	Method	TBLASTX:Soybean
Start	53	End	358
GI	none	Score	131
Exons	53..358, 63..356		
Seq. No.	54094	Seq. ID	OJ990525_03.0419.C15
Gene No.	113526	Strand	-
Start	1	End	2717
Name	OJ990525_03.0419.C15.o1.gs	Method	GENSCAN
Start	59	End	2717
GI	none	Score	.87
Exons	59..346, 375..1031, 1262..1536, 2654..2717		
Seq. No.	54094	Seq. ID	OJ990525_03.0419.C15
Gene No.	113526	Strand	-
Start	1	End	2717
Name	OJ990525_03.0419.C15.o1.tm	Method	TBLASTX:Maize
Start	77	End	332
GI	none	Score	297
Exons	77..331, 81..332		
Seq. No.	54094	Seq. ID	OJ990525_03.0419.C15
Gene No.	113526	Strand	-
Start	1	End	2717
Name	OJ990525_03.0419.C15.o2.tm	Method	TBLASTX:Maize
Start	589	End	927

GI	none	Score	150
Exons	589..927, 600..926		

Seq. No.	54094	Seq. ID	OJ990525_03.0419.C15
Gene No.	113526	Strand	-
Start	1	End	2717
Name	OJ990525_03.0419.C15.o1.ts	Method	TBLASTX:Soybean
Start	592	End	953
GI	none	Score	310
Exons	592..939, 600..953		

Seq. No.	54095	Seq. ID	OJ990525_03.0419.C16
Gene No.	113527	Strand	+
Start	344	End	1071
Name	OJ990525_03.0419.C16.o1.gs	Method	GENSCAN
Start	344	End	1071
GI	none	Score	.94
Exons	344..559, 988..1071		

Seq. No.	54095	Seq. ID	OJ990525_03.0419.C16
Gene No.	113528	Strand	-
Start	1	End	1506
Name	OJ990525_03.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	1439
GI	6358808	Score	77
Exons	1..95, 1275..1439		
GI Descrip.	(AC010675) nitrate transporter (NTL1) [Arabidopsis thaliana]		

Seq. No.	54095	Seq. ID	OJ990525_03.0419.C16
Gene No.	113528	Strand	-
Start	1	End	1506
Name	OJ990525_03.0419.C16.o2.gs	Method	GENSCAN
Start	1181	End	1506
GI	none	Score	.67
Exons	1181..1212, 1275..1389, 1504..1506		

Seq. No.	54096	Seq. ID	OJ990525_03.0419.C25
Gene No.	113529	Strand	+
Start	163	End	1011
Name	OJ990525_03.0419.C25.o1.gs	Method	GENSCAN
Start	163	End	1011
GI	none	Score	.93
Exons	163..201, 281..634, 778..837, 898..1011		

Seq. No.	54097	Seq. ID	OJ990525_03.0419.C26
Gene No.	113530	Strand	-
Start	1	End	1203
Name	OJ990525_03.0419.C26.o1.np	Method	AAT/NAP
Start	1	End	1203
GI	7248394	Score	306
Exons	1..154, 804..1203		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	54097	Seq. ID	OJ990525_03.0419.C26
Gene No.	113530	Strand	-
Start	1	End	1203
Name	OJ990525_03.0419.C26.o1.ts	Method	TBLASTX:Soybean
Start	536	End	946
GI	none	Score	78
Exons	536..688, 701..787, 703..786,	794..946, 808..945	

Seq. No.	54098	Seq. ID	OJ990525_03.0419.C27
Gene No.	113531	Strand	+
Start	1	End	1759
Name	OJ990525_03.0419.C27.o1.np	Method	AAT/NAP
Start	1	End	1759
GI	7340868	Score	51
Exons	1..75, 1156..1284, 1730..1759		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	54098	Seq. ID	OJ990525_03.0419.C27
Gene No.	113532	Strand	-
Start	125	End	1236
Name	OJ990525_03.0419.C27.o1.gs	Method	GENSCAN
Start	125	End	1236
GI	none	Score	.44
Exons	125..192, 241..302, 1117..1236		

Seq. No.	54099	Seq. ID	OJ990525_03.0419.C31
Gene No.	113533	Strand	+
Start	155	End	564
Name	OJ990525_03.0419.C31.o1.tm	Method	TBLASTX:Maize
Start	118	End	480
GI	none	Score	205
Exons	118..327, 120..302, 145..318,	400..480	

Seq. No.	54099	Seq. ID	OJ990525_03.0419.C31
Gene No.	113533	Strand	+
Start	155	End	564
Name	OJ990525_03.0419.C31.o1.gp	Method	AAT/GAP
Start	155	End	564
GI	LIB3432-012-P1-K1-B6	Score	776
Exons	155..564		
GI Descrip.	'2130082/pir||A57676 1.0e-13 protein kinase Xa21 (EC 2.7.1.-) - rice >gi_1122443 (U37133) receptor kinase-like protein [Oryza sativa] >gi_2586085 (U72723) receptor kinase-like protein [Oryza longistaminata] >gi_1586408_prf__2203451A receptor kinase-like protein [Oryza sativa]'		

Seq. No.	54100	Seq. ID	OJ990525_03.0419.C32
Gene No.	113534	Strand	-
Start	1	End	1635
Name	OJ990525_03.0419.C32.o1.np	Method	AAT/NAP
Start	1	End	1635
GI	7487278	Score	87
Exons	1..25, 318..623, 1612..1635		
GI Descrip.	hypothetical protein T20K24.11 - Arabidopsis thaliana gi|3176712|gb|AAD12028.1| (AC002392) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	54101	Seq. ID	OJ990525_03.0419.C33
Gene No.	113535	Strand	+
Start	3	End	2567
Name	OJ990525_03.0419.C33.o1.gs	Method	GENSCAN
Start	3	End	2567
GI	none	Score	.94
Exons	3..89, 1055..1113, 2390..2567		

Seq. No.	54101	Seq. ID	OJ990525_03.0419.C33
Gene No.	113536	Strand	-
Start	3116	End	3452
Name	OJ990525_03.0419.C33.o2.gs	Method	GENSCAN
Start	3116	End	3452
GI	none	Score	.49
Exons	3116..3137, 3376..3452		

Seq. No.	54102	Seq. ID	OJ990525_03.0419.C35
Gene No.	113537	Strand	-
Start	910	End	1137
Name	OJ990525_03.0419.C35.o1.gs	Method	GENSCAN
Start	910	End	1137
GI	none	Score	.91
Exons	910..1137		

Seq. No.	54103	Seq. ID	OJ990525_03.0419.C36
Gene No.	113538	Strand	+
Start	114	End	3577
Name	OJ990525_03.0419.C36.o1.np	Method	AAT/NAP
Start	114	End	3577
GI	7340884	Score	140
Exons	114..267, 3381..3577		
GI Descrip.	(AP001551) Similar to Antirrhinum majus transposon Tam3 gene for transposase. (AB013982) [Oryza sativa]		

Seq. No.	54103	Seq. ID	OJ990525_03.0419.C36
Gene No.	113538	Strand	+
Start	114	End	3577
Name	OJ990525_03.0419.C36.o1.gs	Method	GENSCAN
Start	470	End	949
GI	none	Score	.97
Exons	470..552, 901..949		

Seq. No.	54103	Seq. ID	OJ990525_03.0419.C36
Gene No.	113538	Strand	+
Start	114	End	3577
Name	OJ990525_03.0419.C36.o2.np	Method	AAT/NAP
Start	1748	End	2989
GI	6721543	Score	100
Exons	1748..1874, 2929..2989		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	54103	Seq. ID	OJ990525_03.0419.C36
Gene No.	113539	Strand	-
Start	1678	End	3577
Name	OJ990525_03.0419.C36.o2.gs	Method	GENSCAN
Start	1678	End	3371
GI	none	Score	.57

Exons	1678..1747, 2421..2547, 2698..2900, 3016..3147, 3248..3371		
Seq. No.	54103	Seq. ID	OJ990525_03.0419.C36
Gene No.	113539	Strand	-
Start	1678	End	3577
Name	OJ990525_03.0419.C36.o1.gp	Method	AAT/GAP
Start	2109	End	2562
GI	LIB3431-045-P1-N1-A10	Score	888
Exons	2109..2562		
GI Descrip.	'5441876/dbj|AP000367.1|AP000367 0.0e+00 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig b)'		
Seq. No.	54103	Seq. ID	OJ990525_03.0419.C36
Gene No.	113539	Strand	-
Start	1678	End	3577
Name	OJ990525_03.0419.C36.o3.np	Method	AAT/NAP
Start	2363	End	3577
GI	7228442	Score	249
Exons	2363..2552, 3479..3577		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		
Seq. No.	54103	Seq. ID	OJ990525_03.0419.C36
Gene No.	113539	Strand	-
Start	1678	End	3577
Name	OJ990525_03.0419.C36.o4.np	Method	AAT/NAP
Start	2666	End	3577
GI	5441880	Score	641
Exons	2666..2900, 3016..3147, 3238..3261, 3298..3371, 3494..3577		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		
Seq. No.	54104	Seq. ID	OJ990525_03.0419.C37
Gene No.	113540	Strand	-
Start	1	End	978
Name	OJ990525_03.0419.C37.o1.np	Method	AAT/NAP
Start	1	End	978
GI	5441880	Score	552
Exons	1..361, 438..542, 821..978		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		
Seq. No.	54104	Seq. ID	OJ990525_03.0419.C37
Gene No.	113540	Strand	-
Start	1	End	978
Name	OJ990525_03.0419.C37.o1.gs	Method	GENSCAN
Start	103	End	514
GI	none	Score	.82
Exons	103..361, 438..514		
Seq. No.	54104	Seq. ID	OJ990525_03.0419.C37
Gene No.	113540	Strand	-
Start	1	End	978
Name	OJ990525_03.0419.C37.o1.gp	Method	AAT/GAP

Start	111	End	543
GI	LIB3475-007-P1-K1-G8	Score	641
Exons	111..361, 438..543		
GI Descrip.	'5441880/dbj|BAA82378.1| 5.0e-75 (AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]'		

Seq. No.	54105	Seq. ID	OJ990525_03.0419.C40
Gene No.	113541	Strand	+
Start	1	End	1281
Name	OJ990525_03.0419.C40.o1.np	Method	AAT/NAP
Start	1	End	1060
GI	6815097	Score	908
Exons	1..207, 348..1060		
GI Descrip.	(AP001081) Similar to putative copia polyprotein (AC006248) [Oryza sativa]		

Seq. No.	54105	Seq. ID	OJ990525_03.0419.C40
Gene No.	113541	Strand	+
Start	1	End	1281
Name	OJ990525_03.0419.C40.o1.gs	Method	GENSCAN
Start	227	End	917
GI	none	Score	.58
Exons	227..412, 502..917		

Seq. No.	54105	Seq. ID	OJ990525_03.0419.C40
Gene No.	113541	Strand	+
Start	1	End	1281
Name	OJ990525_03.0419.C40.o1.ts	Method	TBLASTX:Soybean
Start	552	End	914
GI	none	Score	188
Exons	552..914		

Seq. No.	54105	Seq. ID	OJ990525_03.0419.C40
Gene No.	113541	Strand	+
Start	1	End	1281
Name	OJ990525_03.0419.C40.o1.tm	Method	TBLASTX:Maize
Start	570	End	893
GI	none	Score	346
Exons	570..893, 581..892, 738..893		

Seq. No.	54105	Seq. ID	OJ990525_03.0419.C40
Gene No.	113541	Strand	+
Start	1	End	1281
Name	OJ990525_03.0419.C40.o2.tm	Method	TBLASTX:Maize
Start	914	End	1281
GI	none	Score	54
Exons	914..955, 924..956, 1012..1239, 1015..1212, 1016..1213, 1020..1238, 1246..1281		

Seq. No.	54106	Seq. ID	OJ990525_03.0419.C41
Gene No.	113542	Strand	-
Start	1325	End	1571
Name	OJ990525_03.0419.C41.o1.gs	Method	GENSCAN
Start	1325	End	1571
GI	none	Score	.79
Exons	1325..1441, 1500..1571		

Seq. No.	54107	Seq. ID	OJ990525_03.0419.C42
Gene No.	113543	Strand	-
Start	912	End	979
Name	OJ990525_03.0419.C42.o1.gs	Method	GENSCAN
Start	912	End	979
GI	none	Score	.61
Exons	912..979		

Seq. No.	54108	Seq. ID	OJ990525_03.0419.C44
Gene No.	113544	Strand	+
Start	1555	End	1802
Name	OJ990525_03.0419.C44.o1.gs	Method	GENSCAN
Start	1555	End	1802
GI	none	Score	.93
Exons	1555..1560, 1710..1802		

Seq. No.	54109	Seq. ID	OJ990525_03.0419.C45
Gene No.	113545	Strand	+
Start	550	End	1079
Name	OJ990525_03.0419.C45.o1.np	Method	AAT/NAP
Start	550	End	1079
GI	7434424	Score	279
Exons	550..1079		
GI Descrip.	protein kinase Xa21 (EC 2.7.1.-) A1, receptor type - long-staminate rice gi|2586083|gb|AAB82755.1| (U72725) receptor kinase-like protein [Oryza longistaminata]		

Seq. No.	54109	Seq. ID	OJ990525_03.0419.C45
Gene No.	113545	Strand	+
Start	550	End	1079
Name	OJ990525_03.0419.C45.o1.tw	Method	TBLASTX:Wheat
Start	634	End	1077
GI	none	Score	50
Exons	634..720, 727..750, 766..1077		

Seq. No.	54109	Seq. ID	OJ990525_03.0419.C45
Gene No.	113545	Strand	+
Start	550	End	1079
Name	OJ990525_03.0419.C45.o1.tm	Method	TBLASTX:Maize
Start	646	End	1077
GI	none	Score	36
Exons	646..714, 712..750, 762..1076, 763..1062, 787..1062, 844..1077		

Seq. No.	54109	Seq. ID	OJ990525_03.0419.C45
Gene No.	113545	Strand	+
Start	550	End	1079
Name	OJ990525_03.0419.C45.o1.ts	Method	TBLASTX:Soybean
Start	697	End	1077
GI	none	Score	49
Exons	697..756, 757..1077, 766..1050		

Seq. No.	54109	Seq. ID	OJ990525_03.0419.C45
Gene No.	113545	Strand	+
Start	550	End	1079
Name	OJ990525_03.0419.C45.o1.tc	Method	TBLASTX:Cress
Start	715	End	1077

GI	none	Score	42
Exons	715..750, 766..1077, 766..1077, 772..1065, 772..1071, 772..1062, 781..1056, 781..1044, 781..1035, 781..1077, 781..954, 802..912, 853..1077, 916..1077, 967..1035		

Seq. No.	54110	Seq. ID	OJ990525_03.0419.C47
Gene No.	113546	Strand	+
Start	361	End	486
Name	OJ990525_03.0419.C47.o1.gs	Method	GENSCAN
Start	361	End	486
GI	none	Score	.99
Exons	361..486		

Seq. No.	54111	Seq. ID	OJ990325_02.0420.C4
Gene No.	113547	Strand	+
Start	51	End	1740
Name	OJ990325_02.0420.C4.o1.gp	Method	AAT/GAP
Start	51	End	298
GI	3761181	Score	462
Exons	51..298		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	54111	Seq. ID	OJ990325_02.0420.C4
Gene No.	113547	Strand	+
Start	51	End	1740
Name	OJ990325_02.0420.C4.o1.np	Method	AAT/NAP
Start	195	End	1740
GI	7106512	Score	95
Exons	195..255, 329..376, 1717..1740		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54111	Seq. ID	OJ990325_02.0420.C4
Gene No.	113548	Strand	-
Start	268	End	1629
Name	OJ990325_02.0420.C4.o1.gs	Method	GENSCAN
Start	268	End	1629
GI	none	Score	.79
Exons	268..429, 1521..1629		

Seq. No.	54112	Seq. ID	OJ990325_02.0420.C7
Gene No.	113549	Strand	+
Start	1	End	441
Name	OJ990325_02.0420.C7.o1.np	Method	AAT/NAP
Start	1	End	441
GI	4680179	Score	721
Exons	1..441		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	54112	Seq. ID	OJ990325_02.0420.C7
Gene No.	113550	Strand	-
Start	121	End	487
Name	OJ990325_02.0420.C7.o1.tw	Method	TBLASTX:Wheat
Start	7	End	396
GI	none	Score	440
Exons	7..396, 9..200		

Seq. No.	54112	Seq. ID	OJ990325_02.0420.C7
Gene No.	113550	Strand	-
Start	121	End	487
Name	OJ990325_02.0420.C7.o1.tm	Method	TBLASTX:Maize
Start	40	End	300
GI	none	Score	282
Exons	40..300, 51..266		

Seq. No.	54112	Seq. ID	OJ990325_02.0420.C7
Gene No.	113550	Strand	-
Start	121	End	487
Name	OJ990325_02.0420.C7.o1.gs	Method	GENSCAN
Start	121	End	487
GI	none	Score	.44
Exons	121..317, 400..487		

Seq. No.	54113	Seq. ID	OJ990325_02.0420.C8
Gene No.	113551	Strand	+
Start	20	End	510
Name	OJ990325_02.0420.C8.o1.gs	Method	GENSCAN
Start	20	End	510
GI	none	Score	.89
Exons	20..223, 313..510		

Seq. No.	54113	Seq. ID	OJ990325_02.0420.C8
Gene No.	113552	Strand	-
Start	1	End	12333
Name	OJ990325_02.0420.C8.o1.np	Method	AAT/NAP
Start	1	End	605
GI	4680186	Score	84
Exons	1..69, 525..605		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54113	Seq. ID	OJ990325_02.0420.C8
Gene No.	113552	Strand	-
Start	1	End	12333
Name	OJ990325_02.0420.C8.o2.np	Method	AAT/NAP
Start	1	End	12333
GI	2335108	Score	1577
Exons	1..24, 1195..1299, 2254..2315, 2615..2804, 2877..2972, 3059..3166, 4112..4210, 5229..5315, 6228..6313, 6400..6492, 7501..7663, 7776..7888, 7979..8101, 9463..9514, 10529..10572, 10657..10730, 10815..10906, 11556..11651, 12269..12333		
GI Descrip.	(AC002339) putative zinc protease [Arabidopsis thaliana]		

Seq. No.	54113	Seq. ID	OJ990325_02.0420.C8
Gene No.	113552	Strand	-
Start	1	End	12333
Name	OJ990325_02.0420.C8.o2.gs	Method	GENSCAN
Start	1134	End	11623
GI	none	Score	.82
Exons	1134..1139, 1195..1299, 2254..2315, 2615..2804, 3059..3161, 4465..4661, 4725..4766, 5229..5315, 6228..6313, 6400..6492, 7501..7663, 7776..7888, 7979..8101, 9463..9514, 10529..10629, 10657..10730, 10815..10906, 11110..11145, 11556..11623		

Seq. No.	54113	Seq. ID	OJ990325_02.0420.C8
Gene No.	113552	Strand	-
Start	1	End	12333
Name	OJ990325_02.0420.C8.o1.ts	Method	TBLASTX:Soybean
Start	1174	End	4219
GI	none	Score	83
Exons	1174..1302, 1184..1306, 2248..2316, 2612..2797, 2615..2758, 2616..2807, 2620..2808, 2874..2978, 2875..2970, 3050..3163, 3084..3164, 4100..4216, 4100..4219		

Seq. No.	54113	Seq. ID	OJ990325_02.0420.C8
Gene No.	113552	Strand	-
Start	1	End	12333
Name	OJ990325_02.0420.C8.o2.tm	Method	TBLASTX:Maize
Start	1190	End	8021
GI	none	Score	60
Exons	1190..1288, 1190..1288, 1195..1302, 2248..2316, 6201..6314, 6228..6308, 6401..6493, 6402..6503, 7499..7675, 7500..7679, 7752..7889, 7774..7890, 7974..8021		

Seq. No.	54113	Seq. ID	OJ990325_02.0420.C8
Gene No.	113552	Strand	-
Start	1	End	12333
Name	OJ990325_02.0420.C8.o1.tc	Method	TBLASTX:Cress
Start	2616	End	3109
GI	none	Score	157
Exons	2616..2798, 2620..2805, 2704..2805, 2705..2806, 2877..2978, 2898..2978, 3050..3109		

Seq. No.	54113	Seq. ID	OJ990325_02.0420.C8
Gene No.	113552	Strand	-
Start	1	End	12333
Name	OJ990325_02.0420.C8.o1.tm	Method	TBLASTX:Maize
Start	2642	End	5289
GI	none	Score	41
Exons	2642..2668, 2643..2663, 2661..2807, 2722..2838, 2874..2978, 2875..2976, 3047..3160, 3050..3163, 3060..3164, 4106..4216, 4107..4214, 5223..5288, 5230..5289		

Seq. No.	54113	Seq. ID	OJ990325_02.0420.C8
Gene No.	113552	Strand	-
Start	1	End	12333
Name	OJ990325_02.0420.C8.o1.tw	Method	TBLASTX:Wheat
Start	2916	End	6307
GI	none	Score	99
Exons	2916..2978, 2917..2976, 2918..3001, 3050..3178, 3060..3164, 4106..4249, 4107..4214, 5223..5318, 5230..5307, 6192..6305, 6201..6305, 6230..6307		

Seq. No.	54113	Seq. ID	OJ990325_02.0420.C8
Gene No.	113552	Strand	-
Start	1	End	12333
Name	OJ990325_02.0420.C8.o2.ts	Method	TBLASTX:Soybean
Start	6401	End	7642
GI	none	Score	92
Exons	6401..6505, 6405..6506, 7499..7642, 7500..7640, 7526..7642		

Seq. No.	54114	Seq. ID	OJ990325_02.0420.C9
Gene No.	113553	Strand	-
Start	1	End	2072
Name	OJ990325_02.0420.C9.o1.np	Method	AAT/NAP
Start	1	End	1776
GI	2335108	Score	150
Exons	1..90, 1444..1519, 1639..1776		
GI Descrip.	(AC002339) putative zinc protease [Arabidopsis thaliana]		

Seq. No.	54114	Seq. ID	OJ990325_02.0420.C9
Gene No.	113553	Strand	-
Start	1	End	2072
Name	OJ990325_02.0420.C9.o1.gs	Method	GENSCAN
Start	641	End	2072
GI	none	Score	.72
Exons	641..711, 1444..1519, 1639..2072		

Seq. No.	54114	Seq. ID	OJ990325_02.0420.C9
Gene No.	113553	Strand	-
Start	1	End	2072
Name	OJ990325_02.0420.C9.o1.tm	Method	TBLASTX:Maize
Start	1445	End	1743
GI	none	Score	81
Exons	1445..1522, 1445..1522, 1639..1743, 1640..1741		

Seq. No.	54114	Seq. ID	OJ990325_02.0420.C9
Gene No.	113553	Strand	-
Start	1	End	2072
Name	OJ990325_02.0420.C9.o1.ts	Method	TBLASTX:Soybean
Start	1445	End	1743
GI	none	Score	92
Exons	1445..1522, 1639..1743, 1639..1743		

Seq. No.	54115	Seq. ID	OJ990325_02.0420.C10
Gene No.	113554	Strand	-
Start	335	End	549
Name	OJ990325_02.0420.C10.o1.gp	Method	AAT/GAP
Start	335	End	549
GI	2796946	Score	394
Exons	335..549		
GI Descrip.	11957/emb|X15901|CHOSXX 3.0e-18 Rice complete chloroplast genome		

Seq. No.	54115	Seq. ID	OJ990325_02.0420.C10
Gene No.	113555	Strand	-
Start	602	End	4987
Name	OJ990325_02.0420.C10.o3.tw	Method	TBLASTX:Wheat
Start	580	End	730
GI	none	Score	179
Exons	580..726, 593..730, 594..728, 598..729		

Seq. No.	54115	Seq. ID	OJ990325_02.0420.C10
Gene No.	113555	Strand	-
Start	602	End	4987
Name	OJ990325_02.0420.C10.o1.tm	Method	TBLASTX:Maize
Start	582	End	4457
GI	none	Score	251
Exons	582..851, 587..853, 587..859, 909..1046, 919..1044, 921..1100,		

1133..1222, 1134..1220, 1232..1345, 1269..1346, 1272..1364,
1291..1347, 1448..1576, 1450..1512, 1451..1585, 1452..1577,
2236..2445, 2237..2446, 2237..2467, 2238..2447, 2716..2922,
2717..2920, 2751..2921, 3008..3145, 3030..3155, 3033..3149,
3082..3183, 3859..3927, 3864..3926, 3865..3927, 4268..4453,
4269..4454, 4269..4457

Seq. No.	54115	Seq. ID	OJ990325_02.0420.C10
Gene No.	113555	Strand	-
Start	602	End	4987
Name	OJ990325_02.0420.C10.o1.np	Method	AAT/NAP
Start	602	End	4987
GI	2335108	Score	1392
Exons	602..850, 921..1043, 1133..1219, 1292..1343, 1451..1575, 2236..2444, 2718..2919, 3038..3142, 3865..3926, 4267..4456, 4529..4624, 4715..4824, 4927..4987		
GI Descrip.	(AC002339) putative zinc protease [Arabidopsis thaliana]		

Seq. No.	54115	Seq. ID	OJ990325_02.0420.C10
Gene No.	113555	Strand	-
Start	602	End	4987
Name	OJ990325_02.0420.C10.o1.gs	Method	GENSCAN
Start	716	End	4603
GI	none	Score	.82
Exons	716..850, 921..1043, 1133..1219, 1292..1343, 1451..1575, 2236..2444, 2718..2919, 3038..3142, 3865..3926, 4267..4456, 4529..4603		

Seq. No.	54115	Seq. ID	OJ990325_02.0420.C10
Gene No.	113555	Strand	-
Start	602	End	4987
Name	OJ990325_02.0420.C10.o2.ts	Method	TBLASTX:Soybean
Start	918	End	1582
GI	none	Score	66
Exons	918..1046, 919..1044, 921..1049, 1133..1222, 1134..1217, 1292..1351, 1293..1346, 1448..1582, 1450..1512, 1470..1577		

Seq. No.	54115	Seq. ID	OJ990325_02.0420.C10
Gene No.	113555	Strand	-
Start	602	End	4987
Name	OJ990325_02.0420.C10.o1.tw	Method	TBLASTX:Wheat
Start	1199	End	2367
GI	none	Score	99
Exons	1199..1222, 1269..1346, 1292..1345, 1448..1576, 1450..1512, 1451..1585, 2233..2367, 2237..2356		

Seq. No.	54115	Seq. ID	OJ990325_02.0420.C10
Gene No.	113555	Strand	-
Start	602	End	4987
Name	OJ990325_02.0420.C10.o1.tc	Method	TBLASTX:Cress
Start	2386	End	3136
GI	none	Score	106
Exons	2386..2451, 2716..2922, 2717..2920, 3033..3131, 3038..3136		

Seq. No.	54115	Seq. ID	OJ990325_02.0420.C10
Gene No.	113555	Strand	-
Start	602	End	4987

Name	OJ990325_02.0420.C10.o1.ts	Method	TBLASTX:Soybean
Start	2716	End	4837
GI	none	Score	82
Exons	2716..2922, 2764..2922, 3008..3145, 3033..3149, 3859..3927, 4264..4410, 4267..4410, 4268..4450, 4272..4421, 4520..4630, 4527..4610, 4691..4819, 4710..4820, 4715..4837, 4740..4829		

Seq. No.	54115	Seq. ID	OJ990325_02.0420.C10
Gene No.	113555	Strand	-
Start	602	End	4987
Name	OJ990325_02.0420.C10.o2.tc	Method	TBLASTX:Cress
Start	4268	End	4765
GI	none	Score	151
Exons	4268..4450, 4269..4457, 4272..4454, 4286..4459, 4502..4627, 4516..4593, 4520..4630, 4706..4765		

Seq. No.	54115	Seq. ID	OJ990325_02.0420.C10
Gene No.	113555	Strand	-
Start	602	End	4987
Name	OJ990325_02.0420.C10.o2.tm	Method	TBLASTX:Maize
Start	4520	End	4829
GI	none	Score	123
Exons	4520..4630, 4521..4628, 4706..4825, 4715..4825, 4716..4829		

Seq. No.	54115	Seq. ID	OJ990325_02.0420.C10
Gene No.	113555	Strand	-
Start	602	End	4987
Name	OJ990325_02.0420.C10.o2.tw	Method	TBLASTX:Wheat
Start	4568	End	4834
GI	none	Score	80
Exons	4568..4630, 4569..4676, 4706..4834, 4716..4832		

Seq. No.	54116	Seq. ID	OJ990325_02.0420.C11
Gene No.	113556	Strand	+
Start	12251	End	12679
Name	OJ990325_02.0420.C11.o2.np	Method	AAT/NAP
Start	12251	End	12679
GI	4680492	Score	295
Exons	12251..12679		
GI Descrip.	(AF119222) putative reverse transcriptase [Oryza sativa]		

Seq. No.	54116	Seq. ID	OJ990325_02.0420.C11
Gene No.	113557	Strand	-
Start	1	End	11234
Name	OJ990325_02.0420.C11.o1.np	Method	AAT/NAP
Start	1	End	11234
GI	2335108	Score	1107
Exons	1..87, 801..898, 2033..2119, 2897..2982, 3067..3159, 5896..6058, 6176..6288, 6395..6517, 7927..7978, 8139..8182, 8272..8345, 8429..8520, 9368..9435, 10920..10995, 11097..11234		
GI Descrip.	(AC002339) putative zinc protease [Arabidopsis thaliana]		

Seq. No.	54116	Seq. ID	OJ990325_02.0420.C11
Gene No.	113558	Strand	-
Start	12093	End	12152
Name	OJ990325_02.0420.C11.o1.tm	Method	TBLASTX:Maize
Start	794	End	6437

GI	none	Score	43
Exons	794..904, 2894..2983, 2945..2983, 3068..3172, 3069..3194, 5894..6070, 5895..6071, 6173..6289, 6396..6437		

Seq. No.	54116	Seq. ID	OJ990325_02.0420.C11
Gene No.	113558	Strand	-
Start	12093	End	12152
Name	OJ990325_02.0420.C11.o1.ts	Method	TBLASTX:Soybean
Start	3068	End	6037
GI	none	Score	96
Exons	3068..3160, 3072..3170, 5894..6037, 5895..6032		

Seq. No.	54116	Seq. ID	OJ990325_02.0420.C11
Gene No.	113558	Strand	-
Start	12093	End	12152
Name	OJ990325_02.0420.C11.o1.gp	Method	AAT/GAP
Start	12093	End	12152
GI	4715947	Score	71
Exons	12093..12152		
GI Descrip.	2252840 3.0e-09 (AF013293) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana] >gi_6049882_gb_AAF02797.1_AF195115_17 (AF195115) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana]		

Seq. No.	54117	Seq. ID	OJ990325_02.0420.C12
Gene No.	113559	Strand	+
Start	808	End	1060
Name	OJ990325_02.0420.C12.o1.gp	Method	AAT/GAP
Start	808	End	1060
GI	none	Score	398
Exons	808..1060		

Seq. No.	54118	Seq. ID	OJ990325_02.0420.C13
Gene No.	113560	Strand	-
Start	1	End	2884
Name	OJ990325_02.0420.C13.o1.gp	Method	AAT/GAP
Start	1	End	239
GI	31278_1.R1084	Score	407
Exons	1..239		
GI Descrip.	'3319353 2.0e-23 (AF077407) contains similarity to copper-binding proteins [Arabidopsis thaliana]'		

Seq. No.	54118	Seq. ID	OJ990325_02.0420.C13
Gene No.	113560	Strand	-
Start	1	End	2884
Name	OJ990325_02.0420.C13.o1.np	Method	AAT/NAP
Start	1	End	1408
GI	7430869	Score	193
Exons	1..239, 1384..1408		
GI Descrip.	probable blue copper-binding protein F9D12.16 - Arabidopsis thaliana gi|3319353|gb|AAC26242.1| (AF077407) contains similarity to copper-binding proteins [Arabidopsis thaliana]		

Seq. No.	54118	Seq. ID	OJ990325_02.0420.C13
Gene No.	113560	Strand	-
Start	1	End	2884

Name	OJ990325_02.0420.C13.o1.tm	Method	TBLASTX:Maize
Start	1	End	259
GI	none	Score	306
Exons	1..240, 14..241, 146..259		

Seq. No.	54118	Seq. ID	OJ990325_02.0420.C13
Gene No.	113560	Strand	-
Start	1	End	2884
Name	OJ990325_02.0420.C13.o2.np	Method	AAT/NAP
Start	1	End	585
GI	133443	Score	340
Exons	1..38, 343..585		
GI Descrip.	DNA-DIRECTED RNA POLYMERASE BETA" CHAIN gi|66987|pir||RNZMB2 DNA-directed RNA polymerase (EC 2.7.7.6) beta'-2 chain - maize chloroplast gi|12482|emb|CAA35197| (X17318) RNA polymerase beta-2 subunit (AA 1-1527) [Zea mays] gi|902214|emb|CAA60278| (X86563) RNA polymerase beta' subunit-2 [Zea mays]		

Seq. No.	54118	Seq. ID	OJ990325_02.0420.C13
Gene No.	113560	Strand	-
Start	1	End	2884
Name	OJ990325_02.0420.C13.o1.tw	Method	TBLASTX:Wheat
Start	34	End	241
GI	none	Score	134
Exons	34..240, 44..241		

Seq. No.	54118	Seq. ID	OJ990325_02.0420.C13
Gene No.	113560	Strand	-
Start	1	End	2884
Name	OJ990325_02.0420.C13.o2.ts	Method	TBLASTX:Soybean
Start	43	End	240
GI	none	Score	66
Exons	43..240, 44..163, 197..238		

Seq. No.	54118	Seq. ID	OJ990325_02.0420.C13
Gene No.	113560	Strand	-
Start	1	End	2884
Name	OJ990325_02.0420.C13.o1.gs	Method	GENSCAN
Start	58	End	2649
GI	none	Score	.41
Exons	58..247, 1988..2036, 2573..2649		

Seq. No.	54118	Seq. ID	OJ990325_02.0420.C13
Gene No.	113560	Strand	-
Start	1	End	2884
Name	OJ990325_02.0420.C13.o1.tc	Method	TBLASTX:Cress
Start	342	End	497
GI	none	Score	192
Exons	342..494, 347..496, 348..497		

Seq. No.	54118	Seq. ID	OJ990325_02.0420.C13
Gene No.	113560	Strand	-
Start	1	End	2884
Name	OJ990325_02.0420.C13.o1.ts	Method	TBLASTX:Soybean
Start	347	End	870
GI	none	Score	230
Exons	347..529, 348..527, 348..530, 514..591, 534..590, 638..682,		

639..686, 805..870

Seq. No.	54118	Seq. ID	OJ990325_02.0420.C13
Gene No.	113560	Strand	-
Start	1	End	2884
Name	OJ990325_02.0420.C13.o2.tm	Method	TBLASTX:Maize
Start	392	End	883
GI	none	Score	144
Exons	392..529, 393..527, 393..530, 639..686, 715..870, 778..870,	514..591, 534..590, 638..682, 779..883	

Seq. No.	54118	Seq. ID	OJ990325_02.0420.C13
Gene No.	113560	Strand	-
Start	1	End	2884
Name	OJ990325_02.0420.C13.o3.np	Method	AAT/NAP
Start	781	End	2884
GI	133435	Score	104
Exons	781..880, 2862..2884		
GI Descrip.	DNA-DIRECTED RNA POLYMERASE BETA' CHAIN gi|66983|pir||RNRZC1 DNA-directed RNA polymerase (EC 2.7.7.6) beta'-1 chain - rice chloroplast gi|11972|emb|CAA33987| (X15901) RNA polymerase beta' subunit-1 [Oryza sativa] gi|226690|prf||1603356Q RNA polymerase beta'-1 [Oryza sativa]		

Seq. No.	54119	Seq. ID	OJ990325_02.0420.C14
Gene No.	113561	Strand	+
Start	1	End	926
Name	OJ990325_02.0420.C14.o1.np	Method	AAT/NAP
Start	1	End	923
GI	4680179	Score	1464
Exons	1..923		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	54119	Seq. ID	OJ990325_02.0420.C14
Gene No.	113561	Strand	+
Start	1	End	926
Name	OJ990325_02.0420.C14.o1.tw	Method	TBLASTX:Wheat
Start	7	End	545
GI	none	Score	42
Exons	7..45, 47..109, 79..384, 81..545, 92..544		

Seq. No.	54119	Seq. ID	OJ990325_02.0420.C14
Gene No.	113561	Strand	+
Start	1	End	926
Name	OJ990325_02.0420.C14.o1.tm	Method	TBLASTX:Maize
Start	99	End	686
GI	none	Score	226
Exons	99..260, 105..251, 107..253, 258..356, 374..541, 417..686, 425..685	258..326, 260..355,	

Seq. No.	54119	Seq. ID	OJ990325_02.0420.C14
Gene No.	113561	Strand	+
Start	1	End	926
Name	OJ990325_02.0420.C14.o1.gs	Method	GENSCAN
Start	174	End	926
GI	none	Score	.66
Exons	174..926		

Seq. No.	54119	Seq. ID	OJ990325_02.0420.C14
Gene No.	113561	Strand	+
Start	1	End	926
Name	OJ990325_02.0420.C14.o2.tw	Method	TBLASTX:Wheat
Start	545	End	878
GI	none	Score	347
Exons	545..682, 546..878		

Seq. No.	54119	Seq. ID	OJ990325_02.0420.C14
Gene No.	113561	Strand	+
Start	1	End	926
Name	OJ990325_02.0420.C14.o2.tm	Method	TBLASTX:Maize
Start	687	End	899
GI	none	Score	176
Exons	687..899		

Seq. No.	54120	Seq. ID	OJ990325_02.0420.C19
Gene No.	113562	Strand	-
Start	4392	End	4481
Name	OJ990325_02.0420.C19.o1.gp	Method	AAT/GAP
Start	4392	End	4481
GI	69953_1.R1084	Score	122
Exons	4392..4481		
GI Descrip.	'5295936/dbj|AB026295.2|AB026295 7.0e-34 Oryza sativa genomic DNA, chromosome 6, clone:P0681F10, complete sequence'		

Seq. No.	54121	Seq. ID	OJ990325_02.0420.C23
Gene No.	113563	Strand	+
Start	118	End	711
Name	OJ990325_02.0420.C23.o1.np	Method	AAT/NAP
Start	118	End	711
GI	6573436	Score	189
Exons	118..711		
GI Descrip.	Chain A, Lectin Ii From Ulex Europaeus gi|6573437|pdb|1QNW|B Chain B, Lectin Ii From Ulex Europaeus gi|6573438|pdb|1QNW|C Chain C, Lectin Ii From Ulex Europaeus gi|6573439|pdb|1QNW|D Chain D, Lectin Ii From Ulex Europaeus gi|6573440|pdb|1QOO|A Chain A, Lectin Uea-Ii Complexed With Nag gi|6573441|pdb|1QOO|B Chain B, Lectin Uea-Ii Complexed With Nag gi|6573442|pdb|1QOO|C Chain		

Seq. No.	54121	Seq. ID	OJ990325_02.0420.C23
Gene No.	113563	Strand	+
Start	118	End	711
Name	OJ990325_02.0420.C23.o1.gs	Method	GENSCAN
Start	129	End	669
GI	none	Score	.56
Exons	129..327, 376..669		

Seq. No.	54122	Seq. ID	OJ990325_02.0420.C28
Gene No.	113564	Strand	+
Start	376	End	837
Name	OJ990325_02.0420.C28.o1.np	Method	AAT/NAP
Start	376	End	837
GI	6714484	Score	116
Exons	376..576, 666..837		

GI Descrip. (AC008261) unknown protein [Arabidopsis thaliana]

Seq. No.	54122	Seq. ID	OJ990325_02.0420.C28
Gene No.	113564	Strand	+
Start	376	End	837
Name	OJ990325_02.0420.C28.o1.tm	Method	TBLASTX:Maize
Start	543	End	823
GI	none	Score	47
Exons	543..581, 549..575, 660..740, 736..816, 737..823, 740..769,	665..748, 744..815	666..740, 673..747,

Seq. No.	54123	Seq. ID	OJ990325_02.0420.C32
Gene No.	113565	Strand	-
Start	1807	End	1969
Name	OJ990325_02.0420.C32.o1.gs	Method	GENSCAN
Start	1807	End	1969
GI	none	Score	.49
Exons	1807..1969		

Seq. No.	54124	Seq. ID	OJ990325_02.0420.C33
Gene No.	113566	Strand	+
Start	4065	End	5708
Name	OJ990325_02.0420.C33.o2.gs	Method	GENSCAN
Start	4065	End	5708
GI	none	Score	.65
Exons	4065..4203, 4531..4696, 4939..5074, 5333..5491, 5643..5708		

Seq. No.	54124	Seq. ID	OJ990325_02.0420.C33
Gene No.	113567	Strand	+
Start	7209	End	8009
Name	OJ990325_02.0420.C33.o3.gs	Method	GENSCAN
Start	7209	End	8009
GI	none	Score	1
Exons	7209..8009		

Seq. No.	54124	Seq. ID	OJ990325_02.0420.C33
Gene No.	113568	Strand	-
Start	388	End	3428
Name	OJ990325_02.0420.C33.o1.gs	Method	GENSCAN
Start	388	End	3428
GI	none	Score	.84
Exons	388..502, 577..831, 925..1050, 2329..2529, 3120..3428		

Seq. No.	54124	Seq. ID	OJ990325_02.0420.C33
Gene No.	113569	Strand	-
Start	8927	End	10721
Name	OJ990325_02.0420.C33.o2.ts	Method	TBLASTX:Soybean
Start	7587	End	7949
GI	none	Score	99
Exons	7587..7694, 7592..7756, 7742..7813, 7743..7832, 7776..7886, 7778..7867, 7860..7949, 7869..7949		

Seq. No.	54124	Seq. ID	OJ990325_02.0420.C33
Gene No.	113569	Strand	-
Start	8927	End	10721
Name	OJ990325_02.0420.C33.o4.gs	Method	GENSCAN
Start	8927	End	10609

GI	none	Score	.7
Exons	8927..10609		

Seq. No.	54124	Seq. ID	OJ990325_02.0420.C33
Gene No.	113569	Strand	-
Start	8927	End	10721
Name	OJ990325_02.0420.C33.o1.np	Method	AAT/NAP
Start	8954	End	10721
GI	7076798	Score	832
Exons	8954..10721		
GI Descrip.	(AL132975) probable serine/threonine-specific protein kinase [Arabidopsis thaliana]		

Seq. No.	54124	Seq. ID	OJ990325_02.0420.C33
Gene No.	113569	Strand	-
Start	8927	End	10721
Name	OJ990325_02.0420.C33.o1.tm	Method	TBLASTX:Maize
Start	9086	End	9752
GI	none	Score	123
Exons	9086..9322, 9347..9622, 9347..9751, 9360..9752		

Seq. No.	54124	Seq. ID	OJ990325_02.0420.C33
Gene No.	113569	Strand	-
Start	8927	End	10721
Name	OJ990325_02.0420.C33.o1.tc	Method	TBLASTX:Cress
Start	9116	End	10510
GI	none	Score	124
Exons	9116..9670, 9266..9664, 9689..10015, 9690..9998, 10220..10405, 10448..10510		

Seq. No.	54124	Seq. ID	OJ990325_02.0420.C33
Gene No.	113569	Strand	-
Start	8927	End	10721
Name	OJ990325_02.0420.C33.o1.ts	Method	TBLASTX:Soybean
Start	9137	End	9986
GI	none	Score	113
Exons	9137..9670, 9356..9637, 9360..9650, 9686..9871, 9690..9878, 9884..9985, 9885..9986		

Seq. No.	54124	Seq. ID	OJ990325_02.0420.C33
Gene No.	113569	Strand	-
Start	8927	End	10721
Name	OJ990325_02.0420.C33.o1.tw	Method	TBLASTX:Wheat
Start	9515	End	9938
GI	none	Score	89
Exons	9515..9670, 9674..9937, 9690..9938		

Seq. No.	54124	Seq. ID	OJ990325_02.0420.C33
Gene No.	113569	Strand	-
Start	8927	End	10721
Name	OJ990325_02.0420.C33.o2.tm	Method	TBLASTX:Maize
Start	9755	End	9991
GI	none	Score	111
Exons	9755..9871, 9756..9881, 9890..9991, 9891..9977		

Seq. No.	54124	Seq. ID	OJ990325_02.0420.C33
Gene No.	113569	Strand	-

Start	8927	End	10721
Name	OJ990325_02.0420.C33.o2.np	Method	AAT/NAP
Start	10142	End	10721
GI	3122341	Score	249
Exons	10142..10721		
GI Descrip.	BARK LECTIN PRECURSOR (LECSJABG) gi|1755070|gb|AAB51458.1| (U63014) lectin precursor [Sophora japonica]		

Seq. No.	54124	Seq. ID	OJ990325_02.0420.C33
Gene No.	113569	Strand	-
Start	8927	End	10721
Name	OJ990325_02.0420.C33.o3.ts	Method	TBLASTX:Soybean
Start	10433	End	10681
GI	none	Score	184
Exons	10433..10681		

Seq. No.	54125	Seq. ID	OJ990325_02.0420.C35
Gene No.	113570	Strand	-
Start	1	End	1611
Name	OJ990325_02.0420.C35.o1.np	Method	AAT/NAP
Start	1	End	1611
GI	4680179	Score	1938
Exons	1..24, 364..1611		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	54125	Seq. ID	OJ990325_02.0420.C35
Gene No.	113570	Strand	-
Start	1	End	1611
Name	OJ990325_02.0420.C35.o1.gs	Method	GENSCAN
Start	41	End	1588
GI	none	Score	.72
Exons	41..201, 747..1588		

Seq. No.	54125	Seq. ID	OJ990325_02.0420.C35
Gene No.	113570	Strand	-
Start	1	End	1611
Name	OJ990325_02.0420.C35.o3.tw	Method	TBLASTX:Wheat
Start	362	End	542
GI	none	Score	148
Exons	362..541, 363..542		

Seq. No.	54125	Seq. ID	OJ990325_02.0420.C35
Gene No.	113570	Strand	-
Start	1	End	1611
Name	OJ990325_02.0420.C35.o2.tm	Method	TBLASTX:Maize
Start	482	End	898
GI	none	Score	48
Exons	482..898, 495..602, 672..863		

Seq. No.	54125	Seq. ID	OJ990325_02.0420.C35
Gene No.	113570	Strand	-
Start	1	End	1611
Name	OJ990325_02.0420.C35.o1.ts	Method	TBLASTX:Soybean
Start	500	End	760
GI	none	Score	54
Exons	500..568, 500..760, 654..755		

Seq. No.	54125	Seq. ID	OJ990325_02.0420.C35
Gene No.	113570	Strand	-
Start	1	End	1611
Name	OJ990325_02.0420.C35.o1.tc	Method	TBLASTX:Cress
Start	524	End	850
GI	none	Score	58
Exons	524..667, 525..602, 668..850		

Seq. No.	54125	Seq. ID	OJ990325_02.0420.C35
Gene No.	113570	Strand	-
Start	1	End	1611
Name	OJ990325_02.0420.C35.o2.tw	Method	TBLASTX:Wheat
Start	548	End	1027
GI	none	Score	213
Exons	548..1027, 549..932, 554..1009		

Seq. No.	54125	Seq. ID	OJ990325_02.0420.C35
Gene No.	113570	Strand	-
Start	1	End	1611
Name	OJ990325_02.0420.C35.o1.tw	Method	TBLASTX:Wheat
Start	1031	End	1540
GI	none	Score	295
Exons	1031..1540, 1122..1508		

Seq. No.	54125	Seq. ID	OJ990325_02.0420.C35
Gene No.	113570	Strand	-
Start	1	End	1611
Name	OJ990325_02.0420.C35.o1.tm	Method	TBLASTX:Maize
Start	1115	End	1468
GI	none	Score	141
Exons	1115..1468, 1130..1426, 1290..1466		

Seq. No.	54125	Seq. ID	OJ990325_02.0420.C35
Gene No.	113570	Strand	-
Start	1	End	1611
Name	OJ990325_02.0420.C35.o2.ts	Method	TBLASTX:Soybean
Start	1289	End	1531
GI	none	Score	197
Exons	1289..1531		

Seq. No.	54126	Seq. ID	OJ990325_02.0420.C36
Gene No.	113571	Strand	+
Start	1	End	1244
Name	OJ990325_02.0420.C36.o1.np	Method	AAT/NAP
Start	1	End	1244
GI	7106512	Score	1639
Exons	1..816, 871..1244		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54126	Seq. ID	OJ990325_02.0420.C36
Gene No.	113571	Strand	+
Start	1	End	1244
Name	OJ990325_02.0420.C36.o1.gs	Method	GENSCAN
Start	129	End	1178
GI	none	Score	.57
Exons	129..824, 871..955, 970..1178		

Seq. No.	54127	Seq. ID	OJ990325_02.0420.C41
Gene No.	113572	Strand	-
Start	1	End	856
Name	OJ990325_02.0420.C41.o1.np	Method	AAT/NAP
Start	1	End	856
GI	4680179	Score	1353
Exons	1..856		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	54127	Seq. ID	OJ990325_02.0420.C41
Gene No.	113572	Strand	-
Start	1	End	856
Name	OJ990325_02.0420.C41.o1.tw	Method	TBLASTX:Wheat
Start	63	End	509
GI	none	Score	288
Exons	63..509, 67..453		

Seq. No.	54127	Seq. ID	OJ990325_02.0420.C41
Gene No.	113572	Strand	-
Start	1	End	856
Name	OJ990325_02.0420.C41.o3.tm	Method	TBLASTX:Maize
Start	63	End	228
GI	none	Score	137
Exons	63..227, 64..228		

Seq. No.	54127	Seq. ID	OJ990325_02.0420.C41
Gene No.	113572	Strand	-
Start	1	End	856
Name	OJ990325_02.0420.C41.o1.gs	Method	GENSCAN
Start	74	End	575
GI	none	Score	.48
Exons	74..575		

Seq. No.	54127	Seq. ID	OJ990325_02.0420.C41
Gene No.	113572	Strand	-
Start	1	End	856
Name	OJ990325_02.0420.C41.o1.tm	Method	TBLASTX:Maize
Start	231	End	551
GI	none	Score	75
Exons	231..326, 234..551, 235..540		

Seq. No.	54127	Seq. ID	OJ990325_02.0420.C41
Gene No.	113572	Strand	-
Start	1	End	856
Name	OJ990325_02.0420.C41.o1.ts	Method	TBLASTX:Soybean
Start	468	End	728
GI	none	Score	54
Exons	468..536, 468..728, 622..723		

Seq. No.	54127	Seq. ID	OJ990325_02.0420.C41
Gene No.	113572	Strand	-
Start	1	End	856
Name	OJ990325_02.0420.C41.o1.tc	Method	TBLASTX:Cress
Start	492	End	818
GI	none	Score	58
Exons	492..635, 493..570, 636..818		

Seq. No.	54127	Seq. ID	OJ990325_02.0420.C41
Gene No.	113572	Strand	-
Start	1	End	856
Name	OJ990325_02.0420.C41.o2.tw	Method	TBLASTX:Wheat
Start	516	End	854
GI	none	Score	171
Exons	516..854, 517..840		

Seq. No.	54127	Seq. ID	OJ990325_02.0420.C41
Gene No.	113572	Strand	-
Start	1	End	856
Name	OJ990325_02.0420.C41.o2.tm	Method	TBLASTX:Maize
Start	552	End	839
GI	none	Score	93
Exons	552..839, 640..831		

Seq. No.	54128	Seq. ID	OJ990325_02.0420.C42
Gene No.	113573	Strand	-
Start	1	End	1139
Name	OJ990325_02.0420.C42.o1.np	Method	AAT/NAP
Start	1	End	1064
GI	7430869	Score	94
Exons	1..70, 890..1064		
GI Descrip.	probable blue copper-binding protein F9D12.16 - Arabidopsis thaliana gi|3319353|gb|AAC26242.1| (AF077407) contains similarity to copper-binding proteins [Arabidopsis thaliana]		

Seq. No.	54128	Seq. ID	OJ990325_02.0420.C42
Gene No.	113573	Strand	-
Start	1	End	1139
Name	OJ990325_02.0420.C42.o1.gs	Method	GENSCAN
Start	198	End	1061
GI	none	Score	.8
Exons	198..269, 890..1061		

Seq. No.	54128	Seq. ID	OJ990325_02.0420.C42
Gene No.	113573	Strand	-
Start	1	End	1139
Name	OJ990325_02.0420.C42.o1.gp	Method	AAT/GAP
Start	890	End	1139
GI	31278_1.R1084	Score	399
Exons	890..1139		
GI Descrip.	'3319353 2.0e-23 (AF077407) contains similarity to copper-binding proteins [Arabidopsis thaliana]'		

Seq. No.	54129	Seq. ID	OJ990325_02.0420.C43
Gene No.	113574	Strand	-
Start	847	End	1017
Name	OJ990325_02.0420.C43.o1.gs	Method	GENSCAN
Start	847	End	1017
GI	none	Score	.99
Exons	847..1017		

Seq. No.	54130	Seq. ID	OJ990325_02.0420.C44
Gene No.	113575	Strand	+
Start	210	End	527

Name	OJ990325_02.0420.C44.o1.np	Method	AAT/NAP
Start	210	End	527
GI	6069646	Score	124
Exons	210..527		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	54130	Seq. ID	OJ990325_02.0420.C44
Gene No.	113576	Strand	+
Start	597	End	3821
Name	OJ990325_02.0420.C44.o2.np	Method	AAT/NAP
Start	597	End	3821
GI	7388105	Score	392
Exons	597..835, 918..974, 1065..1160, 1500..1597, 1682..1793, 2603..2644, 3671..3821		
GI Descrip.	RIBOSOME RECYCLING FACTOR, CHLOROPLAST PRECURSOR (RIBOSOME RELEASING FACTOR, CHLOROPLAST) (RRF) (RRFHCP) gi|4689034|emb|CAB41419.1| (AJ133751) chloroplast ribosome recycling factor protein [Spinacia oleracea]		

Seq. No.	54130	Seq. ID	OJ990325_02.0420.C44
Gene No.	113576	Strand	+
Start	597	End	3821
Name	OJ990325_02.0420.C44.o1.gs	Method	GENSCAN
Start	649	End	2644
GI	none	Score	.79
Exons	649..707, 908..974, 1500..1597, 1625..1793, 2603..2644		

Seq. No.	54130	Seq. ID	OJ990325_02.0420.C44
Gene No.	113576	Strand	+
Start	597	End	3821
Name	OJ990325_02.0420.C44.o1.tm	Method	TBLASTX:Maize
Start	722	End	3716
GI	none	Score	78
Exons	722..874, 743..820, 768..827, 899..1006, 905..973, 906..1007, 1064..1162, 1065..1163, 1068..1163, 1494..1598, 1497..1589, 1499..1594, 1674..1793, 1676..1795, 1679..1795, 1680..1796, 2600..2653, 2602..2655, 3669..3716, 3670..3711		

Seq. No.	54130	Seq. ID	OJ990325_02.0420.C44
Gene No.	113576	Strand	+
Start	597	End	3821
Name	OJ990325_02.0420.C44.o1.ts	Method	TBLASTX:Soybean
Start	902	End	3742
GI	none	Score	67
Exons	902..1006, 912..986, 1065..1163, 1071..1163, 1494..1598, 1497..1592, 1498..1593, 1499..1594, 1674..1793, 1680..1805, 3668..3742		

Seq. No.	54131	Seq. ID	OJ990325_02.0420.C45
Gene No.	113577	Strand	+
Start	1	End	1092
Name	OJ990325_02.0420.C45.o1.np	Method	AAT/NAP
Start	1	End	439

GI	7388105	Score	134
Exons	1..107, 200..250, 368..439		
GI Descrip.	RIBOSOME RECYCLING FACTOR, CHLOROPLAST PRECURSOR (RIBOSOME RELEASING FACTOR, CHLOROPLAST) (RRF) (RRFHCP) gi|4689034|emb|CAB41419.1| (AJ133751) chloroplast ribosome recycling factor protein [Spinacia oleracea]		

Seq. No.	54131	Seq. ID	OJ990325_02.0420.C45
Gene No.	113577	Strand	+
Start	1	End	1092
Name	OJ990325_02.0420.C45.o1.gp	Method	AAT/GAP
Start	56	End	947
GI	28408_1.R1084	Score	857
Exons	56..97, 190..250, 368..424, 606..947		
GI Descrip.	'1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	54131	Seq. ID	OJ990325_02.0420.C45
Gene No.	113577	Strand	+
Start	1	End	1092
Name	OJ990325_02.0420.C45.o1.gs	Method	GENSCAN
Start	200	End	1092
GI	none	Score	.67
Exons	200..250, 368..424, 994..1092		

Seq. No.	54131	Seq. ID	OJ990325_02.0420.C45
Gene No.	113578	Strand	-
Start	1276	End	1469
Name	OJ990325_02.0420.C45.o2.np	Method	AAT/NAP
Start	1276	End	1469
GI	82536	Score	98
Exons	1276..1469		
GI Descrip.	hypothetical 8.3K protein (trnI-trnC intergenic region) - rice chloroplast gi|11968|emb|CAA33983| (X15901) ORF70 [Oryza sativa] gi|226686|prf||1603356L ORF 70 [Oryza sativa]		

Seq. No.	54131	Seq. ID	OJ990325_02.0420.C45
Gene No.	113579	Strand	-
Start	2241	End	2411
Name	OJ990325_02.0420.C45.o2.gs	Method	GENSCAN
Start	2241	End	2411
GI	none	Score	.99
Exons	2241..2411		

Seq. No.	54132	Seq. ID	OJ990325_02.0420.C46
Gene No.	113580	Strand	+
Start	486	End	2134
Name	OJ990325_02.0420.C46.o1.gs	Method	GENSCAN
Start	486	End	2134
GI	none	Score	.42
Exons	486..783, 1002..1171, 1194..1351, 1468..1490, 1654..1833, 2127..2134		

Seq. No.	54132	Seq. ID	OJ990325_02.0420.C46
Gene No.	113581	Strand	+
Start	7420	End	10332
Name	OJ990325_02.0420.C46.o1.np	Method	AAT/NAP

Start	7420	End	10332
GI	6721517	Score	4164
Exons	7420..7483, 7537..7691, 7771..8523, 8572..10332		
GI Descrip.	(AP001072) Similar to polyprotein. (AF061282) [Oryza sativa]		

Seq. No.	54132	Seq. ID	OJ990325_02.0420.C46
Gene No.	113581	Strand	+
Start	7420	End	10332
Name	OJ990325_02.0420.C46.o4.tw	Method	TBLASTX:Wheat
Start	7689	End	8052
GI	none	Score	298
Exons	7689..7793, 7693..8052, 7818..8051		

Seq. No.	54132	Seq. ID	OJ990325_02.0420.C46
Gene No.	113581	Strand	+
Start	7420	End	10332
Name	OJ990325_02.0420.C46.o4.tm	Method	TBLASTX:Maize
Start	7933	End	8229
GI	none	Score	202
Exons	7933..8229, 7950..8120, 8023..8139		

Seq. No.	54132	Seq. ID	OJ990325_02.0420.C46
Gene No.	113581	Strand	+
Start	7420	End	10332
Name	OJ990325_02.0420.C46.o3.tm	Method	TBLASTX:Maize
Start	8575	End	8895
GI	none	Score	209
Exons	8575..8895		

Seq. No.	54132	Seq. ID	OJ990325_02.0420.C46
Gene No.	113581	Strand	+
Start	7420	End	10332
Name	OJ990325_02.0420.C46.o5.tw	Method	TBLASTX:Wheat
Start	8628	End	8982
GI	none	Score	263
Exons	8628..8768, 8629..8982, 8812..8946		

Seq. No.	54132	Seq. ID	OJ990325_02.0420.C46
Gene No.	113581	Strand	+
Start	7420	End	10332
Name	OJ990325_02.0420.C46.o1.tw	Method	TBLASTX:Wheat
Start	9153	End	9639
GI	none	Score	546
Exons	9153..9596, 9157..9639		

Seq. No.	54132	Seq. ID	OJ990325_02.0420.C46
Gene No.	113581	Strand	+
Start	7420	End	10332
Name	OJ990325_02.0420.C46.o2.tm	Method	TBLASTX:Maize
Start	9222	End	9693
GI	none	Score	385
Exons	9222..9467, 9226..9693, 9313..9660		

Seq. No.	54132	Seq. ID	OJ990325_02.0420.C46
Gene No.	113581	Strand	+
Start	7420	End	10332
Name	OJ990325_02.0420.C46.o3.ts	Method	TBLASTX:Soybean

Start	9226	End	9507
GI	none	Score	183
Exons	9226..9507, 9309..9506		

Seq. No.	54132	Seq. ID	OJ990325_02.0420.C46
Gene No.	113581	Strand	+
Start	7420	End	10332
Name	OJ990325_02.0420.C46.o1.ts	Method	TBLASTX:Soybean
Start	9580	End	9975
GI	none	Score	57
Exons	9580..9612, 9580..9612, 9616..9975, 9619..9693, 9623..9757, 9732..9974		

Seq. No.	54132	Seq. ID	OJ990325_02.0420.C46
Gene No.	113581	Strand	+
Start	7420	End	10332
Name	OJ990325_02.0420.C46.o2.tw	Method	TBLASTX:Wheat
Start	9688	End	10089
GI	none	Score	535
Exons	9688..10089, 9688..10086, 9873..10088		

Seq. No.	54132	Seq. ID	OJ990325_02.0420.C46
Gene No.	113581	Strand	+
Start	7420	End	10332
Name	OJ990325_02.0420.C46.o5.tm	Method	TBLASTX:Maize
Start	9694	End	9857
GI	none	Score	192
Exons	9694..9855, 9698..9856, 9699..9857		

Seq. No.	54132	Seq. ID	OJ990325_02.0420.C46
Gene No.	113581	Strand	+
Start	7420	End	10332
Name	OJ990325_02.0420.C46.o1.tm	Method	TBLASTX:Maize
Start	9862	End	10302
GI	none	Score	438
Exons	9862..10302, 9876..10241, 9895..10290		

Seq. No.	54132	Seq. ID	OJ990325_02.0420.C46
Gene No.	113581	Strand	+
Start	7420	End	10332
Name	OJ990325_02.0420.C46.o2.ts	Method	TBLASTX:Soybean
Start	10000	End	10242
GI	none	Score	197
Exons	10000..10242		

Seq. No.	54132	Seq. ID	OJ990325_02.0420.C46
Gene No.	113581	Strand	+
Start	7420	End	10332
Name	OJ990325_02.0420.C46.o3.tw	Method	TBLASTX:Wheat
Start	10090	End	10332
GI	none	Score	386
Exons	10090..10332, 10095..10331, 10108..10332		

Seq. No.	54133	Seq. ID	OJ990325_02.0420.C47
Gene No.	113582	Strand	-
Start	942	End	2750
Name	OJ990325_02.0420.C47.o4.tw	Method	TBLASTX:Wheat

Start	471	End	804
GI	none	Score	83
Exons	471..620, 486..578, 487..636, 595..654, 663..734, 664..732,	509..619, 587..652, 587..652, 760..804, 772..804	

Seq. No.	54133	Seq. ID	OJ990325_02.0420.C47
Gene No.	113582	Strand	-
Start	942	End	2750
Name	OJ990325_02.0420.C47.o3.tm	Method	TBLASTX:Maize
Start	748	End	1071
GI	none	Score	43
Exons	748..792, 750..773, 799..942, 980..1069, 981..1070, 981..1070,	839..931, 840..932, 850..936, 982..1071, 982..1071	

Seq. No.	54133	Seq. ID	OJ990325_02.0420.C47
Gene No.	113582	Strand	-
Start	942	End	2750
Name	OJ990325_02.0420.C47.o1.gs	Method	GENSCAN
Start	942	End	2639
GI	none	Score	.53
Exons	942..2639		

Seq. No.	54133	Seq. ID	OJ990325_02.0420.C47
Gene No.	113582	Strand	-
Start	942	End	2750
Name	OJ990325_02.0420.C47.o1.np	Method	AAT/NAP
Start	945	End	2750
GI	6630696	Score	3053
Exons	945..2750		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	54133	Seq. ID	OJ990325_02.0420.C47
Gene No.	113582	Strand	-
Start	942	End	2750
Name	OJ990325_02.0420.C47.o1.tw	Method	TBLASTX:Wheat
Start	1081	End	1556
GI	none	Score	410
Exons	1081..1467, 1083..1466, 1482..1556, 1483..1551, 1496..1555		

Seq. No.	54133	Seq. ID	OJ990325_02.0420.C47
Gene No.	113582	Strand	-
Start	942	End	2750
Name	OJ990325_02.0420.C47.o3.ts	Method	TBLASTX:Soybean
Start	1209	End	1550
GI	none	Score	96
Exons	1209..1418, 1288..1413, 1437..1550, 1447..1515		

Seq. No.	54133	Seq. ID	OJ990325_02.0420.C47
Gene No.	113582	Strand	-
Start	942	End	2750
Name	OJ990325_02.0420.C47.o2.tm	Method	TBLASTX:Maize
Start	1413	End	1784
GI	none	Score	311
Exons	1413..1784, 1414..1761		

Seq. No.	54133	Seq. ID	OJ990325_02.0420.C47
Gene No.	113582	Strand	-
Start	942	End	2750
Name	OJ990325_02.0420.C47.o2.tw	Method	TBLASTX:Wheat
Start	1557	End	2309
GI	none	Score	72
Exons	1557..1610, 1764..1970, 1965..2309, 2128..2292		

Seq. No.	54133	Seq. ID	OJ990325_02.0420.C47
Gene No.	113582	Strand	-
Start	942	End	2750
Name	OJ990325_02.0420.C47.o2.ts	Method	TBLASTX:Soybean
Start	1560	End	1911
GI	none	Score	64
Exons	1560..1742, 1563..1751, 1564..1752, 1747..1911, 1752..1910		

Seq. No.	54133	Seq. ID	OJ990325_02.0420.C47
Gene No.	113582	Strand	-
Start	942	End	2750
Name	OJ990325_02.0420.C47.o1.tm	Method	TBLASTX:Maize
Start	1845	End	2310
GI	none	Score	61
Exons	1845..2309, 1948..2058, 2094..2174, 2179..2310		

Seq. No.	54133	Seq. ID	OJ990325_02.0420.C47
Gene No.	113582	Strand	-
Start	942	End	2750
Name	OJ990325_02.0420.C47.o1.ts	Method	TBLASTX:Soybean
Start	1992	End	2444
GI	5509260	Score	103
Exons	1992..2444, 2188..2349		
GI Descrip.	-		

Seq. No.	54133	Seq. ID	OJ990325_02.0420.C47
Gene No.	113582	Strand	-
Start	942	End	2750
Name	OJ990325_02.0420.C47.o1.tc	Method	TBLASTX:Cress
Start	2091	End	2351
GI	none	Score	110
Exons	2091..2351, 2179..2349		

Seq. No.	54133	Seq. ID	OJ990325_02.0420.C47
Gene No.	113582	Strand	-
Start	942	End	2750
Name	OJ990325_02.0420.C47.o3.tw	Method	TBLASTX:Wheat
Start	2364	End	2748
GI	none	Score	212
Exons	2364..2747, 2364..2747, 2692..2748		

Seq. No.	54134	Seq. ID	OJ990325_02.0420.C49
Gene No.	113583	Strand	+
Start	438	End	772
Name	OJ990325_02.0420.C49.o1.gs	Method	GENSCAN
Start	438	End	772
GI	none	Score	.62
Exons	438..566, 761..772		

Seq. No.	54134	Seq. ID	OJ990325_02.0420.C49
Gene No.	113584	Strand	-
Start	1	End	1020
Name	OJ990325_02.0420.C49.o1.np	Method	AAT/NAP
Start	1	End	1020
GI	2335108	Score	324
Exons	1..172, 245..340, 431..540, 976..1020		
GI Descrip.	(AC002339) putative zinc protease [Arabidopsis thaliana]		

Seq. No.	54134	Seq. ID	OJ990325_02.0420.C49
Gene No.	113584	Strand	-
Start	1	End	1020
Name	OJ990325_02.0420.C49.o1.tc	Method	TBLASTX:Cress
Start	1	End	481
GI	none	Score	112
Exons	1..165, 2..166, 6..170, 218..343, 232..309, 236..346, 422..481		

Seq. No.	54134	Seq. ID	OJ990325_02.0420.C49
Gene No.	113584	Strand	-
Start	1	End	1020
Name	OJ990325_02.0420.C49.o1.ts	Method	TBLASTX:Soybean
Start	2	End	553
GI	none	Score	89
Exons	2..166, 3..128, 236..346, 243..326, 407..535, 415..552, 431..553, 456..545		

Seq. No.	54134	Seq. ID	OJ990325_02.0420.C49
Gene No.	113584	Strand	-
Start	1	End	1020
Name	OJ990325_02.0420.C49.o1.tm	Method	TBLASTX:Maize
Start	11	End	545
GI	none	Score	36
Exons	11..31, 30..203, 38..169, 57..173, 61..174, 236..346, 237..344, 422..541, 431..541, 432..545		

Seq. No.	54134	Seq. ID	OJ990325_02.0420.C49
Gene No.	113584	Strand	-
Start	1	End	1020
Name	OJ990325_02.0420.C49.o1.tw	Method	TBLASTX:Wheat
Start	284	End	550
GI	none	Score	80
Exons	284..346, 285..392, 422..550, 432..548		

Seq. No.	54135	Seq. ID	OJ990325_02.0420.C50
Gene No.	113585	Strand	+
Start	343	End	987
Name	OJ990325_02.0420.C50.o1.gs	Method	GENSCAN
Start	343	End	987
GI	none	Score	.83
Exons	343..666, 935..987		

Seq. No.	54135	Seq. ID	OJ990325_02.0420.C50
Gene No.	113586	Strand	+
Start	1665	End	1995
Name	OJ990325_02.0420.C50.o2.gs	Method	GENSCAN
Start	1665	End	1995
GI	none	Score	.64

Exons	1665..1703, 1921..1995		
Seq. No.	54136	Seq. ID	OJ990325_02.0420.C51
Gene No.	113587	Strand	+
Start	743	End	5912
Name	OJ990325_02.0420.C51.o2.gp	Method	AAT/GAP
Start	743	End	1126
GI	uC-osflcyp033a04b1	Score	669
Exons	743..1126		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 3.0e-59 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		
Seq. No.	54136	Seq. ID	OJ990325_02.0420.C51
Gene No.	113587	Strand	+
Start	743	End	5912
Name	OJ990325_02.0420.C51.o1.gs	Method	GENSCAN
Start	848	End	5878
GI	none	Score	.81
Exons	848..913, 2014..2779, 2818..2846, 3072..4263, 4450..5878		
Seq. No.	54136	Seq. ID	OJ990325_02.0420.C51
Gene No.	113587	Strand	+
Start	743	End	5912
Name	OJ990325_02.0420.C51.o2.np	Method	AAT/NAP
Start	3069	End	5912
GI	4680179	Score	3039
Exons	3069..4151, 4185..5912		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		
Seq. No.	54136	Seq. ID	OJ990325_02.0420.C51
Gene No.	113588	Strand	-
Start	676	End	5912
Name	OJ990325_02.0420.C51.o1.np	Method	AAT/NAP
Start	676	End	5729
GI	4680186	Score	350
Exons	676..877, 1716..1764, 5680..5729		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		
Seq. No.	54136	Seq. ID	OJ990325_02.0420.C51
Gene No.	113588	Strand	-
Start	676	End	5912
Name	OJ990325_02.0420.C51.o6.tw	Method	TBLASTX:Wheat
Start	3312	End	3511
GI	none	Score	211
Exons	3312..3509, 3314..3511		
Seq. No.	54136	Seq. ID	OJ990325_02.0420.C51
Gene No.	113588	Strand	-
Start	676	End	5912
Name	OJ990325_02.0420.C51.o4.tw	Method	TBLASTX:Wheat
Start	3545	End	3896
GI	none	Score	293
Exons	3545..3739, 3546..3896		
Seq. No.	54136	Seq. ID	OJ990325_02.0420.C51
Gene No.	113588	Strand	-
Start	676	End	5912

Name	OJ990325_02.0420.C51.o3.tm	Method	TBLASTX:Maize
Start	3546	End	3851
GI	none	Score	232
Exons	3546..3851, 3560..3676		

Seq. No.	54136	Seq. ID	OJ990325_02.0420.C51
Gene No.	113588	Strand	-
Start	676	End	5912
Name	OJ990325_02.0420.C51.o4.tm	Method	TBLASTX:Maize
Start	4176	End	4529
GI	none	Score	192
Exons	4176..4529		

Seq. No.	54136	Seq. ID	OJ990325_02.0420.C51
Gene No.	113588	Strand	-
Start	676	End	5912
Name	OJ990325_02.0420.C51.o5.tw	Method	TBLASTX:Wheat
Start	4212	End	4634
GI	none	Score	166
Exons	4212..4421, 4268..4420, 4466..4579, 4467..4634		

Seq. No.	54136	Seq. ID	OJ990325_02.0420.C51
Gene No.	113588	Strand	-
Start	676	End	5912
Name	OJ990325_02.0420.C51.o2.tw	Method	TBLASTX:Wheat
Start	4749	End	5231
GI	none	Score	51
Exons	4749..4799, 4853..5188, 4854..5231		

Seq. No.	54136	Seq. ID	OJ990325_02.0420.C51
Gene No.	113588	Strand	-
Start	676	End	5912
Name	OJ990325_02.0420.C51.o2.tm	Method	TBLASTX:Maize
Start	4854	End	5285
GI	none	Score	363
Exons	4854..5285, 5084..5278		

Seq. No.	54136	Seq. ID	OJ990325_02.0420.C51
Gene No.	113588	Strand	-
Start	676	End	5912
Name	OJ990325_02.0420.C51.o1.ts	Method	TBLASTX:Soybean
Start	5172	End	5567
GI	none	Score	57
Exons	5172..5204, 5174..5203, 5208..5567, 5210..5248, 5276..5566		

Seq. No.	54136	Seq. ID	OJ990325_02.0420.C51
Gene No.	113588	Strand	-
Start	676	End	5912
Name	OJ990325_02.0420.C51.o1.tw	Method	TBLASTX:Wheat
Start	5280	End	5682
GI	none	Score	503
Exons	5280..5681, 5281..5361, 5282..5680, 5434..5682		

Seq. No.	54136	Seq. ID	OJ990325_02.0420.C51
Gene No.	113588	Strand	-
Start	676	End	5912
Name	OJ990325_02.0420.C51.o1.tm	Method	TBLASTX:Maize

Start	5301	End	5837
GI	none	Score	447
Exons	5301..5837, 5435..5719		

Seq. No.	54136	Seq. ID	OJ990325_02.0420.C51
Gene No.	113588	Strand	-
Start	676	End	5912
Name	OJ990325_02.0420.C51.o2.ts	Method	TBLASTX:Soybean
Start	5589	End	5834
GI	none	Score	207
Exons	5589..5834, 5606..5734		

Seq. No.	54136	Seq. ID	OJ990325_02.0420.C51
Gene No.	113588	Strand	-
Start	676	End	5912
Name	OJ990325_02.0420.C51.o3.tw	Method	TBLASTX:Wheat
Start	5685	End	5912
GI	none	Score	352
Exons	5685..5912, 5685..5909, 5687..5911		

Seq. No.	54137	Seq. ID	OJ990325_02.0420.C52
Gene No.	113589	Strand	+
Start	1	End	1278
Name	OJ990325_02.0420.C52.o1.np	Method	AAT/NAP
Start	1	End	1275
GI	4680179	Score	1927
Exons	1..1275		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	54137	Seq. ID	OJ990325_02.0420.C52
Gene No.	113589	Strand	+
Start	1	End	1278
Name	OJ990325_02.0420.C52.o2.tw	Method	TBLASTX:Wheat
Start	1	End	264
GI	none	Score	418
Exons	1..264, 6..263		

Seq. No.	54137	Seq. ID	OJ990325_02.0420.C52
Gene No.	113589	Strand	+
Start	1	End	1278
Name	OJ990325_02.0420.C52.o1.ts	Method	TBLASTX:Soybean
Start	52	End	312
GI	none	Score	296
Exons	52..312, 57..311		

Seq. No.	54137	Seq. ID	OJ990325_02.0420.C52
Gene No.	113589	Strand	+
Start	1	End	1278
Name	OJ990325_02.0420.C52.o1.gs	Method	GENSCAN
Start	76	End	1278
GI	none	Score	.5
Exons	76..1278		

Seq. No.	54137	Seq. ID	OJ990325_02.0420.C52
Gene No.	113589	Strand	+
Start	1	End	1278
Name	OJ990325_02.0420.C52.o2.tm	Method	TBLASTX:Maize

Start	110	End	402
GI	none	Score	89
Exons	110..271, 111..398, 112..402		

Seq. No.	54137	Seq. ID	OJ990325_02.0420.C52
Gene No.	113589	Strand	+
Start	1	End	1278
Name	OJ990325_02.0420.C52.o1.tw	Method	TBLASTX:Wheat
Start	271	End	897
GI	none	Score	707
Exons	271..897, 327..785, 772..894		

Seq. No.	54137	Seq. ID	OJ990325_02.0420.C52
Gene No.	113589	Strand	+
Start	1	End	1278
Name	OJ990325_02.0420.C52.o1.tm	Method	TBLASTX:Maize
Start	451	End	1050
GI	none	Score	231
Exons	451..612, 459..605, 609..1034, 610..1050, 772..1035		

Seq. No.	54137	Seq. ID	OJ990325_02.0420.C52
Gene No.	113589	Strand	+
Start	1	End	1278
Name	OJ990325_02.0420.C52.o3.tw	Method	TBLASTX:Wheat
Start	897	End	1230
GI	none	Score	329
Exons	897..1166, 898..1230, 901..1209		

Seq. No.	54138	Seq. ID	OJ990325_02.0420.C53
Gene No.	113590	Strand	+
Start	984	End	1160
Name	OJ990325_02.0420.C53.o1.gs	Method	GENSCAN
Start	984	End	1075
GI	none	Score	.46
Exons	984..1075		

Seq. No.	54138	Seq. ID	OJ990325_02.0420.C53
Gene No.	113590	Strand	+
Start	984	End	1160
Name	OJ990325_02.0420.C53.o1.np	Method	AAT/NAP
Start	984	End	1160
GI	2335108	Score	64
Exons	984..1160		
GI Descrip.	(AC002339) putative zinc protease [Arabidopsis thaliana]		

Seq. No.	54139	Seq. ID	OJ990325_02.0420.C59
Gene No.	113591	Strand	-
Start	894	End	1115
Name	OJ990325_02.0420.C59.o1.gs	Method	GENSCAN
Start	894	End	1115
GI	none	Score	.51
Exons	894..922, 1049..1115		

Seq. No.	54140	Seq. ID	OJ990325_02.0420.C62
Gene No.	113592	Strand	+
Start	215	End	562
Name	OJ990325_02.0420.C62.o1.np	Method	AAT/NAP

Start	215	End	491
GI	6714484	Score	372
Exons	215..491		
GI Descrip.	(AC008261) unknown protein [Arabidopsis thaliana]		

Seq. No.	54140	Seq. ID	OJ990325_02.0420.C62
Gene No.	113592	Strand	+
Start	215	End	562
Name	OJ990325_02.0420.C62.o1.gp	Method	AAT/GAP
Start	335	End	562
GI	2796804	Score	369
Exons	335..562		
GI Descrip.	4415929/gb|AAD20159| 7.0e-10 (AC006418) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54140	Seq. ID	OJ990325_02.0420.C62
Gene No.	113593	Strand	+
Start	643	End	999
Name	OJ990325_02.0420.C62.o2.gp	Method	AAT/GAP
Start	643	End	999
GI	2798255	Score	648
Exons	643..999		

Seq. No.	54140	Seq. ID	OJ990325_02.0420.C62
Gene No.	113594	Strand	-
Start	1609	End	1938
Name	OJ990325_02.0420.C62.o1.tm	Method	TBLASTX:Maize
Start	212	End	489
GI	none	Score	63
Exons	212..313, 217..339, 217..315, 218..325, 222..326, 312..488, 315..488, 316..489		

Seq. No.	54140	Seq. ID	OJ990325_02.0420.C62
Gene No.	113594	Strand	-
Start	1609	End	1938
Name	OJ990325_02.0420.C62.o1.tc	Method	TBLASTX:Cress
Start	217	End	482
GI	none	Score	110
Exons	217..312, 225..395, 315..482, 362..466		

Seq. No.	54140	Seq. ID	OJ990325_02.0420.C62
Gene No.	113594	Strand	-
Start	1609	End	1938
Name	OJ990325_02.0420.C62.o1.ts	Method	TBLASTX:Soybean
Start	217	End	502
GI	none	Score	122
Exons	217..336, 219..326, 315..485, 317..499, 320..502		

Seq. No.	54140	Seq. ID	OJ990325_02.0420.C62
Gene No.	113594	Strand	-
Start	1609	End	1938
Name	OJ990325_02.0420.C62.o1.tw	Method	TBLASTX:Wheat
Start	262	End	532
GI	none	Score	48
Exons	262..312, 314..469, 315..494, 321..482, 380..532		

Seq. No.	54140	Seq. ID	OJ990325_02.0420.C62

Gene No.	113594	Strand	-
Start	1609	End	1938
Name	OJ990325_02.0420.C62.o3.gp	Method	AAT/GAP
Start	1448	End	1778
GI	none	Score	597
Exons	1448..1778		

Seq. No.	54140	Seq. ID	OJ990325_02.0420.C62
Gene No.	113594	Strand	-
Start	1609	End	1938
Name	OJ990325_02.0420.C62.o2.tm	Method	TBLASTX:Maize
Start	1575	End	1938
GI	none	Score	95
Exons	1575..1703, 1584..1703, 1585..1704, 1700..1750, 1701..1757, 1759..1845, 1772..1849, 1781..1867, 1799..1933, 1807..1938, 1828..1938		

Seq. No.	54140	Seq. ID	OJ990325_02.0420.C62
Gene No.	113594	Strand	-
Start	1609	End	1938
Name	OJ990325_02.0420.C62.o2.np	Method	AAT/NAP
Start	1599	End	1938
GI	6562297	Score	201
Exons	1599..1938		
GI Descrip.	(AL133421) putative protein [Arabidopsis thaliana]		

Seq. No.	54140	Seq. ID	OJ990325_02.0420.C62
Gene No.	113594	Strand	-
Start	1609	End	1938
Name	OJ990325_02.0420.C62.o1.gs	Method	GENSCAN
Start	1609	End	1772
GI	none	Score	.44
Exons	1609..1772		

Seq. No.	54140	Seq. ID	OJ990325_02.0420.C62
Gene No.	113594	Strand	-
Start	1609	End	1938
Name	OJ990325_02.0420.C62.o4.gp	Method	AAT/GAP
Start	1738	End	1938
GI	uC-osflcyp174b03b1	Score	349
Exons	1738..1938		
GI Descrip.	'2335108 6.0e-19 (AC002339) putative isulinase [Arabidopsis thaliana]'		

Seq. No.	54141	Seq. ID	OJ990325_02.0420.C75
Gene No.	113595	Strand	+
Start	1	End	813
Name	OJ990325_02.0420.C75.o1.np	Method	AAT/NAP
Start	1	End	813
GI	6562297	Score	179
Exons	1..68, 481..663, 717..813		
GI Descrip.	(AL133421) putative protein [Arabidopsis thaliana]		

Seq. No.	54141	Seq. ID	OJ990325_02.0420.C75
Gene No.	113595	Strand	+
Start	1	End	813
Name	OJ990325_02.0420.C75.o1.tm	Method	TBLASTX:Maize

Start	31	End	652
GI	none	Score	58
Exons	31..66, 32..67, 32..67, 33..77, 478..570, 479..580, 480..602, 480..632, 564..644, 565..648, 566..652		

Seq. No.	54142	Seq. ID	OJ990325_02.0420.C78
Gene No.	113596	Strand	+
Start	6087	End	8131
Name	OJ990325_02.0420.C78.o2.gp	Method	AAT/GAP
Start	5963	End	7479
GI	65347_1.R1084	Score	633
Exons	5963..6185, 7358..7479		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	54142	Seq. ID	OJ990325_02.0420.C78
Gene No.	113596	Strand	+
Start	6087	End	8131
Name	OJ990325_02.0420.C78.o1.np	Method	AAT/NAP
Start	6087	End	8128
GI	6706419	Score	799
Exons	6087..6185, 7358..7873, 7982..8128		
GI Descrip.	(AL133248) putative protein [Arabidopsis thaliana]		

Seq. No.	54142	Seq. ID	OJ990325_02.0420.C78
Gene No.	113596	Strand	+
Start	6087	End	8131
Name	OJ990325_02.0420.C78.o3.gs	Method	GENSCAN
Start	6087	End	8131
GI	none	Score	.78
Exons	6087..6185, 7373..8131		

Seq. No.	54142	Seq. ID	OJ990325_02.0420.C78
Gene No.	113597	Strand	-
Start	988	End	2162
Name	OJ990325_02.0420.C78.o1.gp	Method	AAT/GAP
Start	720	End	2162
GI	4350_1.R1084	Score	1716
Exons	720..1113, 1202..1267, 1372..1429, 1572..1663, 1831..2162		
GI Descrip.	'2252840 3.0e-09 (AF013293) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana] >gi_6049882_gb_AAF02797.1_AF195115_17 (AF195115) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana]'		

Seq. No.	54142	Seq. ID	OJ990325_02.0420.C78
Gene No.	113597	Strand	-
Start	988	End	2162
Name	OJ990325_02.0420.C78.o1.gs	Method	GENSCAN
Start	988	End	2052
GI	none	Score	.66
Exons	988..1113, 1202..1267, 1372..1429, 1572..1663, 1831..2052		

Seq. No.	54142	Seq. ID	OJ990325_02.0420.C78
Gene No.	113598	Strand	-
Start	3139	End	5051
Name	OJ990325_02.0420.C78.o2.gs	Method	GENSCAN

Start	3139	End	5051
GI	none	Score	.46
Exons	3139..3267, 3340..3378, 4720..4897, 4975..5051		

Seq. No.	54142	Seq. ID	OJ990325_02.0420.C78
Gene No.	113599	Strand	-
Start	8806	End	8892
Name	OJ990325_02.0420.C78.o3.tm	Method	TBLASTX:Maize
Start	845	End	1628
GI	none	Score	38
Exons	845..868, 846..866, 988..1116, 993..1115, 997..1119, 1010..1120, 1179..1268, 1202..1270, 1202..1270, 1372..1431, 1574..1627, 1578..1628		

Seq. No.	54142	Seq. ID	OJ990325_02.0420.C78
Gene No.	113599	Strand	-
Start	8806	End	8892
Name	OJ990325_02.0420.C78.o1.tm	Method	TBLASTX:Maize
Start	6074	End	7663
GI	none	Score	210
Exons	6074..6169, 6084..6188, 7357..7662, 7358..7663		

Seq. No.	54142	Seq. ID	OJ990325_02.0420.C78
Gene No.	113599	Strand	-
Start	8806	End	8892
Name	OJ990325_02.0420.C78.o1.ts	Method	TBLASTX:Soybean
Start	6086	End	7717
GI	none	Score	161
Exons	6086..6169, 6087..6188, 7356..7670, 7357..7710, 7358..7717		

Seq. No.	54142	Seq. ID	OJ990325_02.0420.C78
Gene No.	113599	Strand	-
Start	8806	End	8892
Name	OJ990325_02.0420.C78.o2.tm	Method	TBLASTX:Maize
Start	7932	End	8304
GI	none	Score	211
Exons	7932..8126, 7933..8130, 7934..8131, 8212..8301, 8239..8304		

Seq. No.	54142	Seq. ID	OJ990325_02.0420.C78
Gene No.	113599	Strand	-
Start	8806	End	8892
Name	OJ990325_02.0420.C78.o4.gs	Method	GENSCAN
Start	8806	End	8892
GI	none	Score	.7
Exons	8806..8892		

Seq. No.	54143	Seq. ID	OJ990325_02.0420.C79
Gene No.	113600	Strand	+
Start	1	End	2862
Name	OJ990325_02.0420.C79.o1.np	Method	AAT/NAP
Start	1	End	2811
GI	6729489	Score	666
Exons	1..147, 1729..2811		
GI Descrip.	(AL132966) receptor lectin kinase-like protein [Arabidopsis thaliana]		

Seq. No.	54143	Seq. ID	OJ990325_02.0420.C79

Gene No.	113600	Strand	+
Start	1	End	2862
Name	OJ990325_02.0420.C79.o1.gs	Method	GENSCAN
Start	116	End	2862
GI	none	Score	.43
Exons	116..234, 766..981, 1096..2862		

Seq. No.	54143	Seq. ID	OJ990325_02.0420.C79
Gene No.	113601	Strand	-
Start	4755	End	4996
Name	OJ990325_02.0420.C79.o1.tc	Method	TBLASTX:Cress
Start	1213	End	2619
GI	none	Score	53
Exons	1213..1260, 1306..1512, 1723..1851, 1867..2058, 1875..2045, 2071..2280, 2089..2187, 2268..2408, 2269..2436, 2512..2619		

Seq. No.	54143	Seq. ID	OJ990325_02.0420.C79
Gene No.	113601	Strand	-
Start	4755	End	4996
Name	OJ990325_02.0420.C79.o1.ts	Method	TBLASTX:Soybean
Start	1741	End	2442
GI	none	Score	98
Exons	1741..1875, 1860..1982, 1864..1998, 2008..2061, 2016..2060, 2059..2442, 2283..2402		

Seq. No.	54143	Seq. ID	OJ990325_02.0420.C79
Gene No.	113601	Strand	-
Start	4755	End	4996
Name	OJ990325_02.0420.C79.o1.tw	Method	TBLASTX:Wheat
Start	1810	End	2229
GI	none	Score	50
Exons	1810..1845, 1873..2058, 2068..2229		

Seq. No.	54143	Seq. ID	OJ990325_02.0420.C79
Gene No.	113601	Strand	-
Start	4755	End	4996
Name	OJ990325_02.0420.C79.o1.tm	Method	TBLASTX:Maize
Start	1872	End	2402
GI	none	Score	207
Exons	1872..2060, 1873..2061, 2068..2280, 2080..2187, 2244..2276, 2257..2400, 2268..2402		

Seq. No.	54143	Seq. ID	OJ990325_02.0420.C79
Gene No.	113601	Strand	-
Start	4755	End	4996
Name	OJ990325_02.0420.C79.o3.tm	Method	TBLASTX:Maize
Start	3825	End	4172
GI	none	Score	36
Exons	3825..3854, 3848..3970, 3852..3971, 3853..3969, 3974..4027, 3975..4028, 3975..4049, 3976..4050, 4035..4145, 4045..4107, 4103..4171, 4139..4162, 4140..4172		

Seq. No.	54143	Seq. ID	OJ990325_02.0420.C79
Gene No.	113601	Strand	-
Start	4755	End	4996
Name	OJ990325_02.0420.C79.o2.tw	Method	TBLASTX:Wheat
Start	4714	End	4863

GI	none	Score	196
Exons	4714..4863, 4718..4861, 4731..4862		

Seq. No.	54143	Seq. ID	OJ990325_02.0420.C79
Gene No.	113601	Strand	-
Start	4755	End	4996
Name	OJ990325_02.0420.C79.o2.tm	Method	TBLASTX:Maize
Start	4717	End	4985
GI	none	Score	217
Exons	4717..4914, 4719..4985, 4746..4985		

Seq. No.	54143	Seq. ID	OJ990325_02.0420.C79
Gene No.	113601	Strand	-
Start	4755	End	4996
Name	OJ990325_02.0420.C79.o2.np	Method	AAT/NAP
Start	4755	End	4996
GI	6706418	Score	145
Exons	4755..4996		
GI Descrip.	(AL133248) protease-like protein [Arabidopsis thaliana]		

Seq. No.	54144	Seq. ID	OJ990325_02.0420.C80
Gene No.	113602	Strand	-
Start	183	End	6014
Name	OJ990325_02.0420.C80.o2.tw	Method	TBLASTX:Wheat
Start	163	End	312
GI	none	Score	196
Exons	163..312, 180..311		

Seq. No.	54144	Seq. ID	OJ990325_02.0420.C80
Gene No.	113602	Strand	-
Start	183	End	6014
Name	OJ990325_02.0420.C80.o1.tm	Method	TBLASTX:Maize
Start	166	End	4628
GI	none	Score	217
Exons	166..363, 168..434, 195..434, 491..628, 501..626, 503..634, 768..860, 773..874, 773..862, 932..988, 933..989, 934..987, 1124..1192, 1125..1256, 1131..1259, 1132..1257, 1132..1293, 1432..1473, 1452..1634, 1453..1662, 1460..1645, 1745..1951, 1746..1949, 1750..1950, 2355..2465, 2356..2475, 2358..2465, 2420..2467, 4063..4134, 4398..4628, 4428..4613, 4432..4617		

Seq. No.	54144	Seq. ID	OJ990325_02.0420.C80
Gene No.	113602	Strand	-
Start	183	End	6014
Name	OJ990325_02.0420.C80.o1.np	Method	AAT/NAP
Start	183	End	6014
GI	2335108	Score	1490
Exons	183..431, 503..625, 773..859, 934..985, 1131..1255, 1432..1643, 1747..1948, 2358..2462, 4072..4133, 4427..4616, 4689..4784, 4871..4978, 5882..6014		
GI Descrip.	(AC002339) putative zinc protease [Arabidopsis thaliana]		

Seq. No.	54144	Seq. ID	OJ990325_02.0420.C80
Gene No.	113602	Strand	-
Start	183	End	6014
Name	OJ990325_02.0420.C80.o1.gs	Method	GENSCAN
Start	235	End	4772

GI	none	Score	.67
Exons	235..431, 503..625, 773..874, 934..985, 1131..1255, 1432..1700, 1747..1948, 2358..2462, 4689..4772		

Seq. No.	54144	Seq. ID	OJ990325_02.0420.C80
Gene No.	113602	Strand	-
Start	183	End	6014
Name	OJ990325_02.0420.C80.o3.tw	Method	TBLASTX:Wheat
Start	932	End	1566
GI	none	Score	87
Exons	932..988, 934..987, 1124..1192, 1125..1256, 1132..1263, 1135..1257, 1428..1460, 1429..1497, 1432..1473, 1452..1556, 1453..1545, 1453..1566, 1454..1555, 1461..1562		

Seq. No.	54144	Seq. ID	OJ990325_02.0420.C80
Gene No.	113602	Strand	-
Start	183	End	6014
Name	OJ990325_02.0420.C80.o2.tc	Method	TBLASTX:Cress
Start	1576	End	2465
GI	none	Score	125
Exons	1576..1683, 1745..1951, 1746..1949, 1814..1951, 2352..2465, 2355..2465		

Seq. No.	54144	Seq. ID	OJ990325_02.0420.C80
Gene No.	113602	Strand	-
Start	183	End	6014
Name	OJ990325_02.0420.C80.o1.ts	Method	TBLASTX:Soybean
Start	1594	End	5991
GI	none	Score	68
Exons	1594..1662, 1745..1951, 1746..1949, 1841..1951, 2347..2469, 2358..2465, 4407..4571, 4428..4610, 4432..4608, 4432..4614, 4680..4781, 4680..4790, 4687..4782, 4862..4981, 4867..4974, 4881..4982, 5870..5986, 5870..5989, 5872..5991		

Seq. No.	54144	Seq. ID	OJ990325_02.0420.C80
Gene No.	113602	Strand	-
Start	183	End	6014
Name	OJ990325_02.0420.C80.o1.tc	Method	TBLASTX:Cress
Start	4428	End	4921
GI	none	Score	163
Exons	4428..4610, 4432..4614, 4432..4617, 4433..4618, 4676..4753, 4680..4790, 4681..4782, 4862..4921		

Seq. No.	54144	Seq. ID	OJ990325_02.0420.C80
Gene No.	113602	Strand	-
Start	183	End	6014
Name	OJ990325_02.0420.C80.o2.tm	Method	TBLASTX:Maize
Start	4680	End	5983
GI	none	Score	127
Exons	4680..4790, 4681..4788, 4685..4798, 4859..4975, 4862..4975, 4872..4976, 5876..5980, 5877..5981, 5890..5982, 5891..5983		

Seq. No.	54144	Seq. ID	OJ990325_02.0420.C80
Gene No.	113602	Strand	-
Start	183	End	6014
Name	OJ990325_02.0420.C80.o1.tw	Method	TBLASTX:Wheat
Start	4728	End	5983

GI	none	Score	90
Exons	4728..4790, 4729..4788, 4730..4792, 4862..4975, 4872..4976, 5876..5980, 5877..5981, 5878..5982, 5878..5982, 5879..5983		

Seq. No.	54145	Seq. ID	OJ990325_02.0420.C81
Gene No.	113603	Strand	-
Start	496	End	1575
Name	OJ990325_02.0420.C81.o1.gs	Method	GENSCAN
Start	496	End	1575
GI	none	Score	.71
Exons	496..599, 1331..1434, 1509..1575		

Seq. No.	54146	Seq. ID	OJ990325_02.0420.C83
Gene No.	113604	Strand	-
Start	420	End	855
Name	OJ990325_02.0420.C83.o1.gs	Method	GENSCAN
Start	420	End	855
GI	none	Score	.92
Exons	420..631, 747..820, 838..855		

Seq. No.	54147	Seq. ID	OJ990325_02.0420.C85
Gene No.	113605	Strand	+
Start	65	End	712
Name	OJ990325_02.0420.C85.o1.gs	Method	GENSCAN
Start	65	End	712
GI	none	Score	.79
Exons	65..218, 594..712		

Seq. No.	54148	Seq. ID	OJ990325_02.0420.C93
Gene No.	113606	Strand	+
Start	611	End	1529
Name	OJ990325_02.0420.C93.o1.gs	Method	GENSCAN
Start	611	End	1529
GI	none	Score	.46
Exons	611..1529		

Seq. No.	54149	Seq. ID	OJ990325_02.0420.C94
Gene No.	113607	Strand	+
Start	674	End	835
Name	OJ990325_02.0420.C94.o1.gs	Method	GENSCAN
Start	674	End	835
GI	none	Score	.97
Exons	674..835		

Seq. No.	54149	Seq. ID	OJ990325_02.0420.C94
Gene No.	113608	Strand	-
Start	1	End	1052
Name	OJ990325_02.0420.C94.o1.np	Method	AAT/NAP
Start	1	End	908
GI	7106512	Score	84
Exons	1..58, 722..774, 848..908		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54149	Seq. ID	OJ990325_02.0420.C94
Gene No.	113608	Strand	-
Start	1	End	1052

Name	OJ990325_02.0420.C94.o1.gp	Method	AAT/GAP
Start	805	End	1052
GI	3761181	Score	462
Exons	805..1052		
GI Descrip.	4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene		

Seq. No.	54150	Seq. ID	OJ990325_02.0420.C95
Gene No.	113609	Strand	-
Start	380	End	810
Name	OJ990325_02.0420.C95.o1.np	Method	AAT/NAP
Start	380	End	810
GI	7106512	Score	39
Exons	380..680, 754..810		
GI Descrip.	(AP001278) EST C98429(E0138) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54150	Seq. ID	OJ990325_02.0420.C95
Gene No.	113610	Strand	-
Start	752	End	1064
Name	OJ990325_02.0420.C95.o2.np	Method	AAT/NAP
Start	752	End	1064
GI	7248395	Score	207
Exons	752..1064		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	54151	Seq. ID	OJ990325_02.0420.C96
Gene No.	113611	Strand	-
Start	1	End	1663
Name	OJ990325_02.0420.C96.o1.np	Method	AAT/NAP
Start	1	End	1663
GI	6630696	Score	2359
Exons	1..61, 290..1663		
GI Descrip.	(AP000969) ESTs D22114(C10364), AU076106(E20423) correspond to a region of the predicted gene.; Similar to retrovirus-related pol polyprotein from transposon Tnt 1-94. (P10978) [Oryza sativa]		

Seq. No.	54151	Seq. ID	OJ990325_02.0420.C96
Gene No.	113611	Strand	-
Start	1	End	1663
Name	OJ990325_02.0420.C96.o1.gs	Method	GENSCAN
Start	238	End	1581
GI	none	Score	.58
Exons	238..1131, 1168..1581		

Seq. No.	54151	Seq. ID	OJ990325_02.0420.C96
Gene No.	113611	Strand	-
Start	1	End	1663
Name	OJ990325_02.0420.C96.o1.tw	Method	TBLASTX:Wheat
Start	288	End	553
GI	none	Score	269
Exons	288..545, 304..552, 305..553		

Seq. No.	54151	Seq. ID	OJ990325_02.0420.C96
Gene No.	113611	Strand	-
Start	1	End	1663
Name	OJ990325_02.0420.C96.o2.tm	Method	TBLASTX:Maize

Start	292	End	660
GI	none	Score	68
Exons	292..660, 293..421		

Seq. No.	54151	Seq. ID	OJ990325_02.0420.C96
Gene No.	113611	Strand	-
Start	1	End	1663
Name	OJ990325_02.0420.C96.o1.ts	Method	TBLASTX:Soybean
Start	328	End	577
GI	none	Score	99
Exons	328..381, 400..576, 403..567, 458..577		

Seq. No.	54151	Seq. ID	OJ990325_02.0420.C96
Gene No.	113611	Strand	-
Start	1	End	1663
Name	OJ990325_02.0420.C96.o1.tm	Method	TBLASTX:Maize
Start	772	End	1116
GI	none	Score	373
Exons	772..813, 842..1114, 842..1114, 843..1115, 843..1115, 844..1116		

Seq. No.	54151	Seq. ID	OJ990325_02.0420.C96
Gene No.	113611	Strand	-
Start	1	End	1663
Name	OJ990325_02.0420.C96.o1.gp	Method	AAT/GAP
Start	1057	End	1663
GI	101595_1.R1084	Score	883
Exons	1057..1131, 1247..1663		
GI Descrip.	'3047066 3.0e-15 (AF058825) contains similarity to retrovirus-related POL polyproteins [Arabidopsis thaliana]'		

Seq. No.	54152	Seq. ID	OJ990325_02.0420.C97
Gene No.	113612	Strand	-
Start	3064	End	8358
Name	OJ990325_02.0420.C97.o2.gs	Method	GENSCAN
Start	3064	End	8358
GI	none	Score	.45
Exons	3064..3551, 6078..8358		

Seq. No.	54152	Seq. ID	OJ990325_02.0420.C97
Gene No.	113612	Strand	-
Start	3064	End	8358
Name	OJ990325_02.0420.C97.o1.gp	Method	AAT/GAP
Start	5525	End	5959
GI	3767888	Score	807
Exons	5525..5959		

Seq. No.	54152	Seq. ID	OJ990325_02.0420.C97
Gene No.	113612	Strand	-
Start	3064	End	8358
Name	OJ990325_02.0420.C97.o3.tm	Method	TBLASTX:Maize
Start	6076	End	6636
GI	none	Score	53
Exons	6076..6123, 6077..6124, 6081..6134, 6130..6192, 6133..6192, 6187..6267, 6199..6264, 6241..6285, 6263..6358, 6385..6483, 6451..6636, 6475..6510, 6485..6550, 6512..6580, 6514..6636		

Seq. No.	54152	Seq. ID	OJ990325_02.0420.C97

Gene No.	113612	Strand	-
Start	3064	End	8358
Name	OJ990325_02.0420.C97.o2.gp	Method	AAT/GAP
Start	6106	End	7161
GI	14616_1.R1084	Score	1890
Exons	6106..6257, 6345..7161		
GI Descrip.	'4521193/dbj|AB013450.1|AB013450 1.0e-99 Oryza sativa DNA, similar sequence to Pib gene'		

Seq. No.	54152	Seq. ID	OJ990325_02.0420.C97
Gene No.	113612	Strand	-
Start	3064	End	8358
Name	OJ990325_02.0420.C97.o2.tm	Method	TBLASTX:Maize
Start	6643	End	6984
GI	none	Score	240
Exons	6643..6681, 6644..6823, 6644..6811, 6745..6825, 6836..6922, 6841..6930, 6842..6928, 6905..6955, 6910..6984		

Seq. No.	54152	Seq. ID	OJ990325_02.0420.C97
Gene No.	113612	Strand	-
Start	3064	End	8358
Name	OJ990325_02.0420.C97.o1.tm	Method	TBLASTX:Maize
Start	7508	End	8278
GI	none	Score	196
Exons	7508..7711, 7509..7712, 7708..7782, 7718..7780, 7759..7977, 7836..7982, 7893..7991, 7992..8249, 7992..8243, 8057..8266, 8252..8278		

Seq. No.	54153	Seq. ID	OJ990325_02.0420.C98
Gene No.	113613	Strand	-
Start	1	End	1486
Name	OJ990325_02.0420.C98.o1.np	Method	AAT/NAP
Start	1	End	1486
GI	2335108	Score	135
Exons	1..78, 544..644, 1307..1486		
GI Descrip.	(AC002339) putative zinc protease [Arabidopsis thaliana]		

Seq. No.	54153	Seq. ID	OJ990325_02.0420.C98
Gene No.	113613	Strand	-
Start	1	End	1486
Name	OJ990325_02.0420.C98.o1.gs	Method	GENSCAN
Start	558	End	1387
GI	none	Score	.77
Exons	558..644, 1307..1387		

Seq. No.	54154	Seq. ID	OJ990325_02.0420.C99
Gene No.	113614	Strand	-
Start	1	End	6273
Name	OJ990325_02.0420.C99.o1.np	Method	AAT/NAP
Start	1	End	5798
GI	6706418	Score	784
Exons	1..258, 537..629, 1755..1917, 2039..2151, 2253..2375, 3533..3584, 3983..4026, 4115..4188, 4273..4364, 5515..5798		
GI Descrip.	(AL133248) protease-like protein [Arabidopsis thaliana]		

Seq. No.	54154	Seq. ID	OJ990325_02.0420.C99
Gene No.	113614	Strand	-

Start	1	End	6273
Name	OJ990325_02.0420.C99.o1.tm	Method	TBLASTX:Maize
Start	170	End	2295
GI	none	Score	64
Exons	170..259, 538..630, 542..640, 1753..1923, 1754..1924, 1783..1926, 2030..2152, 2254..2295		

Seq. No.	54154	Seq. ID	OJ990325_02.0420.C99
Gene No.	113614	Strand	-
Start	1	End	6273
Name	OJ990325_02.0420.C99.o1.gs	Method	GENSCAN
Start	537	End	6273
GI	none	Score	.79
Exons	537..629, 1755..1931, 3533..3584, 3983..4026, 4115..4188, 4273..4364, 5515..5582, 6255..6273		

Seq. No.	54154	Seq. ID	OJ990325_02.0420.C99
Gene No.	113614	Strand	-
Start	1	End	6273
Name	OJ990325_02.0420.C99.o1.ts	Method	TBLASTX:Soybean
Start	538	End	1896
GI	none	Score	100
Exons	538..630, 539..643, 1742..1888, 1753..1896		

Seq. No.	54155	Seq. ID	OJ990325_02.0420.C100
Gene No.	113615	Strand	-
Start	1	End	2570
Name	OJ990325_02.0420.C100.o1.np	Method	AAT/NAP
Start	1	End	304
GI	2335108	Score	97
Exons	1..56, 167..304		
GI Descrip.	(AC002339) putative zinc protease [Arabidopsis thaliana]		

Seq. No.	54155	Seq. ID	OJ990325_02.0420.C100
Gene No.	113615	Strand	-
Start	1	End	2570
Name	OJ990325_02.0420.C100.o1.gs	Method	GENSCAN
Start	80	End	2105
GI	none	Score	.83
Exons	80..648, 1466..1694, 1768..1890, 2019..2105		

Seq. No.	54155	Seq. ID	OJ990325_02.0420.C100
Gene No.	113615	Strand	-
Start	1	End	2570
Name	OJ990325_02.0420.C100.o1.gp	Method	AAT/GAP
Start	1356	End	1805
GI	3767053	Score	681
Exons	1356..1694, 1768..1805		
GI Descrip.	2335108 6.0e-19 (AC002339) putative isulinase [Arabidopsis thaliana]		

Seq. No.	54155	Seq. ID	OJ990325_02.0420.C100
Gene No.	113615	Strand	-
Start	1	End	2570
Name	OJ990325_02.0420.C100.o1.tm	Method	TBLASTX:Maize
Start	1431	End	2489
GI	none	Score	82

Exons	1431..1526, 1431..1697, 1432..1695, 1548..1718, 1696..1893, 1718..1891, 1767..1892, 1768..1899, 2019..2108, 2019..2108, 2020..2118, 2160..2234, 2161..2235, 2161..2235, 2180..2236, 2355..2486, 2357..2488, 2360..2488, 2376..2489		
Seq. No.	54155	Seq. ID	OJ990325_02.0420.C100
Gene No.	113615	Strand	-
Start	1	End	2570
Name	OJ990325_02.0420.C100.o2.tw	Method	TBLASTX:Wheat
Start	1433	End	1575
GI	none	Score	109
Exons	1433..1570, 1434..1571, 1437..1574, 1438..1575, 1438..1575		
Seq. No.	54155	Seq. ID	OJ990325_02.0420.C100
Gene No.	113615	Strand	-
Start	1	End	2570
Name	OJ990325_02.0420.C100.o2.np	Method	AAT/NAP
Start	1467	End	2570
GI	6706418	Score	412
Exons	1467..1694, 1768..1890, 2019..2105, 2181..2232, 2361..2570		
GI Descrip.	(AL133248) protease-like protein [Arabidopsis thaliana]		
Seq. No.	54155	Seq. ID	OJ990325_02.0420.C100
Gene No.	113615	Strand	-
Start	1	End	2570
Name	OJ990325_02.0420.C100.o1.ts	Method	TBLASTX:Soybean
Start	1765	End	2500
GI	none	Score	104
Exons	1765..1893, 1766..1891, 1777..1896, 2019..2108, 2020..2118, 2181..2240, 2182..2235, 2355..2477, 2360..2500, 2363..2488		
Seq. No.	54155	Seq. ID	OJ990325_02.0420.C100
Gene No.	113615	Strand	-
Start	1	End	2570
Name	OJ990325_02.0420.C100.o1.tw	Method	TBLASTX:Wheat
Start	2087	End	2489
GI	none	Score	41
Exons	2087..2107, 2161..2235, 2180..2257, 2181..2234, 2355..2486, 2360..2488, 2365..2487, 2376..2489		
Seq. No.	54155	Seq. ID	OJ990325_02.0420.C100
Gene No.	113615	Strand	-
Start	1	End	2570
Name	OJ990325_02.0420.C100.o2.gp	Method	AAT/GAP
Start	2373	End	2570
GI	15407_1.R1084	Score	197
Exons	2373..2488, 2549..2570		
GI Descrip.	'2335108 6.0e-19 (AC002339) putative isulinase [Arabidopsis thaliana]'		
Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113616	Strand	-
Start	57	End	13478
Name	OJ990315_09.0421.C5.o1.gs	Method	GENSCAN
Start	57	End	13478
GI	none	Score	.44
Exons	57..165, 787..945, 1133..1200, 1364..1535, 2380..2526,		

3004..3112, 4024..4647, 8478..8602, 9555..9576, 9835..10784, 10905..11321, 11923..12058, 13342..13478

Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113616	Strand	-
Start	57	End	13478
Name	OJ990315_09.0421.C5.o1.gp	Method	AAT/GAP
Start	7414	End	7772
GI	4716016	Score	646
Exons	7414..7772		

Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113616	Strand	-
Start	57	End	13478
Name	OJ990315_09.0421.C5.o2.gp	Method	AAT/GAP
Start	9702	End	10203
GI	uC-osflm202101a11b1	Score	856
Exons	9702..10203		
GI Descrip.	'2252840 3.0e-09 (AF013293) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana] >gi_6049882_gb_AAF02797.1_AF195115_17 (AF195115) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana]'		

Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113616	Strand	-
Start	57	End	13478
Name	OJ990315_09.0421.C5.o1.np	Method	AAT/NAP
Start	9945	End	11229
GI	7485003	Score	657
Exons	9945..10256, 10302..10784, 10905..11229		
GI Descrip.	heat shock transcription factor homolog T5C23.90 - Arabidopsis thaliana gi|4539457|emb|CAB39937.1| (AL049500) heat shock transcription factor-like protein [Arabidopsis thaliana] gi|7267866|emb|CAB78209.1| (AL161532) heat shock transcription factor-like protein [Arabidopsis thaliana]		

Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113617	Strand	-
Start	17001	End	19105
Name	OJ990315_09.0421.C5.o4.tm	Method	TBLASTX:Maize
Start	9799	End	9955
GI	none	Score	187
Exons	9799..9954, 9799..9864, 9801..9938, 9901..9954, 9902..9955		

Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113617	Strand	-
Start	17001	End	19105
Name	OJ990315_09.0421.C5.o1.ts	Method	TBLASTX:Soybean
Start	10509	End	11103
GI	none	Score	121
Exons	10509..10586, 10689..10790, 10690..10815, 10900..11103, 10905..11102		

Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113617	Strand	-
Start	17001	End	19105

Name	OJ990315_09.0421.C5.o1.tc	Method	TBLASTX:Cress
Start	10689	End	11103
GI	none	Score	118
Exons	10689..10790, 10690..10815, 10905..11102, 10906..11103		

Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113617	Strand	-
Start	17001	End	19105
Name	OJ990315_09.0421.C5.o1.tw	Method	TBLASTX:Wheat
Start	10699	End	11106
GI	none	Score	144
Exons	10699..10815, 10700..10783, 10701..10790, 10901..10960, 10905..11105, 10906..11106		

Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113617	Strand	-
Start	17001	End	19105
Name	OJ990315_09.0421.C5.o1.tm	Method	TBLASTX:Maize
Start	10739	End	11106
GI	none	Score	67
Exons	10739..10783, 10740..10787, 10740..10790, 10741..10815, 10901..10960, 10905..11105, 10906..11106		

Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113617	Strand	-
Start	17001	End	19105
Name	OJ990315_09.0421.C5.o3.gp	Method	AAT/GAP
Start	16780	End	17319
GI	81907_1.R1084	Score	738
Exons	16780..17094, 17232..17319		
GI Descrip.	'1173555 9.0e-41 (U31544) UDP-galactose-4-epimerase [Pisum sativum]'		

Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113617	Strand	-
Start	17001	End	19105
Name	OJ990315_09.0421.C5.o2.gs	Method	GENSCAN
Start	17001	End	19040
GI	none	Score	.76
Exons	17001..17094, 17232..17323, 17439..17521, 17632..17713, 17801..18028, 18212..18313, 18400..18486, 18535..18634, 18670..19040		

Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113617	Strand	-
Start	17001	End	19105
Name	OJ990315_09.0421.C5.o2.tm	Method	TBLASTX:Maize
Start	17007	End	17863
GI	none	Score	78
Exons	17007..17093, 17015..17083, 17022..17084, 17029..17106, 17231..17344, 17232..17321, 17419..17523, 17439..17522, 17484..17546, 17494..17523, 17630..17713, 17631..17714, 17634..17714, 17638..17715, 17723..17863, 17771..17863		

Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113617	Strand	-
Start	17001	End	19105

Name	OJ990315_09.0421.C5.o2.np	Method	AAT/NAP
Start	17013	End	19019
GI	7437228	Score	1023
Exons	17013..17094, 17232..17323, 17439..17521, 17632..17713, 17801..18028, 18212..18313, 18400..18534, 18670..18719, 18825..19019		
GI Descrip.	UDPglucose 4-epimerase (EC 5.1.3.2) - garden pea gi|1173555|gb|AAA86532.1| (U31544) UDP-galactose-4-epimerase [Pisum sativum]		

Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113617	Strand	-
Start	17001	End	19105
Name	OJ990315_09.0421.C5.o3.ts	Method	TBLASTX:Soybean
Start	17022	End	18998
GI	none	Score	85
Exons	17022..17093, 17029..17100, 17231..17326, 17238..17324, 17630..17713, 18209..18316, 18210..18314, 18397..18441, 18678..18722, 18831..18998, 18880..18993		

Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113617	Strand	-
Start	17001	End	19105
Name	OJ990315_09.0421.C5.o2.tc	Method	TBLASTX:Cress
Start	17025	End	19001
GI	none	Score	64
Exons	17025..17093, 17029..17100, 17231..17326, 17238..17324, 17421..17522, 17434..17523, 17630..17713, 17631..17711, 17771..18031, 17796..17996, 18209..18313, 18210..18314, 18403..18441, 18444..18491, 18667..18720, 18829..18993, 18831..19001		

Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113617	Strand	-
Start	17001	End	19105
Name	OJ990315_09.0421.C5.o2.ts	Method	TBLASTX:Soybean
Start	17439	End	18031
GI	none	Score	87
Exons	17439..17522, 17440..17523, 17651..17680, 17777..18031, 17799..18008		

Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113617	Strand	-
Start	17001	End	19105
Name	OJ990315_09.0421.C5.o4.gp	Method	AAT/GAP
Start	17776	End	18308
GI	1631971	Score	595
Exons	17776..18028, 18212..18308		
GI Descrip.	1173555 9.0e-41 (U31544) UDP-galactose-4-epimerase [Pisum sativum]		

Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113617	Strand	-
Start	17001	End	19105
Name	OJ990315_09.0421.C5.o3.tm	Method	TBLASTX:Maize
Start	17864	End	19010
GI	none	Score	122

Exons	17864..18031, 17865..18029, 17867..18031, 18209..18316, 18210..18311, 18858..19010, 18883..18993		
Seq. No.	54156	Seq. ID	OJ990315_09.0421.C5
Gene No.	113617	Strand	-
Start	17001	End	19105
Name	OJ990315_09.0421.C5.o5.gp	Method	AAT/GAP
Start	18651	End	19105
GI	66487_1.R1084	Score	612
Exons	18651..18719, 18825..19105		
GI Descrip.	'2129759/pir||S62783 4.0e-21 UDPglucose 4-epimerase (EC 5.1.3.2) - Arabidopsis thaliana >gi_1143392_emb_CAA90941_ (Z54214) uridine diphosphate glucose epimerase [Arabidopsis thaliana]'		
Seq. No.	54157	Seq. ID	OJ990315_09.0421.C6
Gene No.	113618	Strand	+
Start	841	End	2823
Name	OJ990315_09.0421.C6.o1.gs	Method	GENSCAN
Start	841	End	2823
GI	none	Score	.74
Exons	841..885, 1323..1390, 2356..2439, 2483..2579, 2743..2823		
Seq. No.	54157	Seq. ID	OJ990315_09.0421.C6
Gene No.	113619	Strand	+
Start	2973	End	3307
Name	OJ990315_09.0421.C6.o1.gp	Method	AAT/GAP
Start	2973	End	3307
GI	1854325	Score	662
Exons	2973..3307		
Seq. No.	54157	Seq. ID	OJ990315_09.0421.C6
Gene No.	113620	Strand	+
Start	4451	End	7400
Name	OJ990315_09.0421.C6.o3.gs	Method	GENSCAN
Start	4451	End	7400
GI	none	Score	.74
Exons	4451..4487, 5553..5745, 5827..5911, 6051..6194, 6441..6509, 6927..7400		
Seq. No.	54157	Seq. ID	OJ990315_09.0421.C6
Gene No.	113621	Strand	-
Start	1	End	7455
Name	OJ990315_09.0421.C6.o2.np	Method	AAT/NAP
Start	1	End	7455
GI	5734621	Score	185
Exons	1..55, 3368..3458, 6822..7031, 7335..7455		
GI Descrip.	(AP000391) ESTs AU067992(C11433),AU077424(C11433) correspond to a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]		
Seq. No.	54157	Seq. ID	OJ990315_09.0421.C6
Gene No.	113621	Strand	-
Start	1	End	7455
Name	OJ990315_09.0421.C6.o2.gs	Method	GENSCAN
Start	3124	End	3855
GI	none	Score	.91
Exons	3124..3855		

Seq. No.	54157	Seq. ID	OJ990315_09.0421.C6
Gene No.	113621	Strand	-
Start	1	End	7455
Name	OJ990315_09.0421.C6.o1.np	Method	AAT/NAP
Start	3177	End	5835
GI	6957733	Score	550
Exons	3177..3836, 5742..5835		
GI Descrip.	(AC021640) unknown protein [Arabidopsis thaliana]		

Seq. No.	54157	Seq. ID	OJ990315_09.0421.C6
Gene No.	113621	Strand	-
Start	1	End	7455
Name	OJ990315_09.0421.C6.o2.gp	Method	AAT/GAP
Start	3685	End	5995
GI	none	Score	779
Exons	3685..3836, 5742..5995		

Seq. No.	54157	Seq. ID	OJ990315_09.0421.C6
Gene No.	113622	Strand	-
Start	9080	End	13146
Name	OJ990315_09.0421.C6.o1.tm	Method	TBLASTX:Maize
Start	3217	End	5835
GI	none	Score	315
Exons	3217..3687, 3236..3685, 3796..3849, 5740..5835		

Seq. No.	54157	Seq. ID	OJ990315_09.0421.C6
Gene No.	113622	Strand	-
Start	9080	End	13146
Name	OJ990315_09.0421.C6.o1.ts	Method	TBLASTX:Soybean
Start	3353	End	5835
GI	none	Score	326
Exons	3353..3721, 3355..3726, 3371..3757, 3802..3870, 5735..5824, 5740..5835		

Seq. No.	54157	Seq. ID	OJ990315_09.0421.C6
Gene No.	113622	Strand	-
Start	9080	End	13146
Name	OJ990315_09.0421.C6.o1.tc	Method	TBLASTX:Cress
Start	3437	End	5835
GI	none	Score	178
Exons	3437..3709, 3439..3714, 3446..3718, 3796..3849, 5740..5835		

Seq. No.	54157	Seq. ID	OJ990315_09.0421.C6
Gene No.	113622	Strand	-
Start	9080	End	13146
Name	OJ990315_09.0421.C6.o1.tw	Method	TBLASTX:Wheat
Start	3631	End	5874
GI	none	Score	209
Exons	3631..3858, 3632..3805, 3781..3858, 5738..5824, 5738..5782, 5740..5874		

Seq. No.	54157	Seq. ID	OJ990315_09.0421.C6
Gene No.	113622	Strand	-
Start	9080	End	13146
Name	OJ990315_09.0421.C6.o4.gs	Method	GENSCAN
Start	9080	End	13146

GI	none	Score	.64
Exons	9080..9174, 9493..9599, 9959..10174, 10568..11033, 12522..12661, 13031..13146		

Seq. No.	54158	Seq. ID	OJ990315_09.0421.C7
Gene No.	113623	Strand	+
Start	2461	End	7130
Name	OJ990315_09.0421.C7.o1.np	Method	AAT/NAP
Start	2461	End	7130
GI	6069646	Score	222
Exons	2461..2489, 6576..7130		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	54158	Seq. ID	OJ990315_09.0421.C7
Gene No.	113623	Strand	+
Start	2461	End	7130
Name	OJ990315_09.0421.C7.o1.gs	Method	GENSCAN
Start	3160	End	6458
GI	none	Score	.67
Exons	3160..3253, 3380..3441, 3535..3613, 4048..4128, 4664..4694, 4812..4891, 6400..6458		

Seq. No.	54158	Seq. ID	OJ990315_09.0421.C7
Gene No.	113623	Strand	+
Start	2461	End	7130
Name	OJ990315_09.0421.C7.o1.gp	Method	AAT/GAP
Start	4651	End	4906
GI	none	Score	216
Exons	4651..4724, 4812..4906		

Seq. No.	54158	Seq. ID	OJ990315_09.0421.C7
Gene No.	113624	Strand	+
Start	15613	End	16873
Name	OJ990315_09.0421.C7.o3.gs	Method	GENSCAN
Start	15613	End	16873
GI	none	Score	.87
Exons	15613..15687, 15746..15920, 16047..16108, 16202..16280, 16770..16873		

Seq. No.	54158	Seq. ID	OJ990315_09.0421.C7
Gene No.	113625	Strand	+
Start	21596	End	22474
Name	OJ990315_09.0421.C7.o2.np	Method	AAT/NAP
Start	21596	End	22474
GI	2129606	Score	267
Exons	21596..21835, 22396..22474		
GI Descrip.	GTP-binding protein 3 - Arabidopsis thaliana gi|2129701|pir||S71586 Rab11 homolog GTP-binding protein ATGB3 - Arabidopsis thaliana gi|1184985|gb|AAA87884.1| (U46926) ATGB3 [Arabidopsis thaliana]		

Seq. No.	54158	Seq. ID	OJ990315_09.0421.C7
Gene No.	113626	Strand	-

Start	10782	End	13793
Name	OJ990315_09.0421.C7.o2.gs	Method	GENSCAN
Start	10782	End	13793
GI	none	Score	.48
Exons	10782..11099, 11175..11279, 11326..11492, 12227..12425, 12508..12574, 12854..13404, 13521..13793		

Seq. No.	54158	Seq. ID	OJ990315_09.0421.C7
Gene No.	113627	Strand	-
Start	17622	End	22172
Name	OJ990315_09.0421.C7.o3.tm	Method	TBLASTX:Maize
Start	3099	End	16866
GI	none	Score	56
Exons	3099..3137, 3192..3263, 3196..3279, 3196..3258, 3366..3440, 3382..3441, 3537..3614, 3538..3615, 4046..4144, 4047..4136, 4386..4424, 4490..4543, 4490..4534, 4498..4557, 4673..4720, 4674..4724, 4825..4893, 4833..4892, 15766..15804, 15863..15946, 15863..15925, 16049..16108, 16205..16282, 16768..16866, 16769..16825		

Seq. No.	54158	Seq. ID	OJ990315_09.0421.C7
Gene No.	113627	Strand	-
Start	17622	End	22172
Name	OJ990315_09.0421.C7.o1.tm	Method	TBLASTX:Maize
Start	6590	End	7048
GI	none	Score	253
Exons	6590..6922, 6956..7048		

Seq. No.	54158	Seq. ID	OJ990315_09.0421.C7
Gene No.	113627	Strand	-
Start	17622	End	22172
Name	OJ990315_09.0421.C7.o2.tw	Method	TBLASTX:Wheat
Start	6721	End	7051
GI	none	Score	145
Exons	6721..6861, 6725..6922, 6940..7029, 6941..7051		

Seq. No.	54158	Seq. ID	OJ990315_09.0421.C7
Gene No.	113627	Strand	-
Start	17622	End	22172
Name	OJ990315_09.0421.C7.o4.gs	Method	GENSCAN
Start	17622	End	22172
GI	none	Score	.69
Exons	17622..17741, 17773..17976, 18824..19140, 20871..20952, 21648..21808, 22115..22172		

Seq. No.	54158	Seq. ID	OJ990315_09.0421.C7
Gene No.	113627	Strand	-
Start	17622	End	22172
Name	OJ990315_09.0421.C7.o1.tc	Method	TBLASTX:Cress
Start	21639	End	21835
GI	none	Score	271
Exons	21639..21833, 21653..21835		

Seq. No.	54158	Seq. ID	OJ990315_09.0421.C7
Gene No.	113627	Strand	-
Start	17622	End	22172
Name	OJ990315_09.0421.C7.o1.ts	Method	TBLASTX:Soybean

Start	21639	End	21835
GI	none	Score	263
Exons	21639..21833, 21650..21835		

Seq. No.	54158	Seq. ID	OJ990315_09.0421.C7
Gene No.	113627	Strand	-
Start	17622	End	22172
Name	OJ990315_09.0421.C7.o1.tw	Method	TBLASTX:Wheat
Start	21642	End	21833
GI	none	Score	268
Exons	21642..21833, 21650..21832		

Seq. No.	54158	Seq. ID	OJ990315_09.0421.C7
Gene No.	113627	Strand	-
Start	17622	End	22172
Name	OJ990315_09.0421.C7.o2.tm	Method	TBLASTX:Maize
Start	21642	End	21823
GI	none	Score	269
Exons	21642..21821, 21650..21823, 21689..21823		

Seq. No.	54158	Seq. ID	OJ990315_09.0421.C7
Gene No.	113627	Strand	-
Start	17622	End	22172
Name	OJ990315_09.0421.C7.o2.gp	Method	AAT/GAP
Start	21709	End	21835
GI	2435_1.R1084	Score	211
Exons	21709..21835		
GI Descrip.	'303736/dbj|BAA02109| 2.0e-59 (D12541) GTP-binding protein [Pisum sativum] >gi_738934_prf__2001457B GTP-binding protein [Pisum sativum]'		

Seq. No.	54159	Seq. ID	OJ990315_09.0421.C8
Gene No.	113628	Strand	+
Start	1	End	3494
Name	OJ990315_09.0421.C8.o1.np	Method	AAT/NAP
Start	1	End	1055
GI	5926718	Score	378
Exons	1..22, 580..1055		
GI Descrip.	(AB007911) PRA2 [Pisum sativum]		

Seq. No.	54159	Seq. ID	OJ990315_09.0421.C8
Gene No.	113628	Strand	+
Start	1	End	3494
Name	OJ990315_09.0421.C8.o1.gs	Method	GENSCAN
Start	590	End	3494
GI	none	Score	.45
Exons	590..1057, 2717..2846, 2939..3212, 3244..3494		

Seq. No.	54159	Seq. ID	OJ990315_09.0421.C8
Gene No.	113629	Strand	-
Start	589	End	1228
Name	OJ990315_09.0421.C8.o1.gp	Method	AAT/GAP
Start	589	End	1228
GI	2435_1.R1084	Score	1257
Exons	589..1228		
GI Descrip.	'303736/dbj|BAA02109| 2.0e-59 (D12541) GTP-binding protein [Pisum sativum] >gi_738934_prf__2001457B GTP-binding protein		

[Pisum sativum]'

Seq. No.	54159	Seq. ID	OJ990315_09.0421.C8
Gene No.	113630	Strand	-
Start	3778	End	4814
Name	OJ990315_09.0421.C8.o1.tc	Method	TBLASTX:Cress
Start	587	End	926
GI	none	Score	229
Exons	587..754, 588..758, 768..926		

Seq. No.	54159	Seq. ID	OJ990315_09.0421.C8
Gene No.	113630	Strand	-
Start	3778	End	4814
Name	OJ990315_09.0421.C8.o1.tw	Method	TBLASTX:Wheat
Start	587	End	926
GI	none	Score	224
Exons	587..754, 588..839, 669..773, 771..926		

Seq. No.	54159	Seq. ID	OJ990315_09.0421.C8
Gene No.	113630	Strand	-
Start	3778	End	4814
Name	OJ990315_09.0421.C8.o1.ts	Method	TBLASTX:Soybean
Start	588	End	920
GI	none	Score	218
Exons	588..758, 590..754, 768..920		

Seq. No.	54159	Seq. ID	OJ990315_09.0421.C8
Gene No.	113630	Strand	-
Start	3778	End	4814
Name	OJ990315_09.0421.C8.o1.tm	Method	TBLASTX:Maize
Start	621	End	914
GI	none	Score	169
Exons	621..770, 623..754, 768..914		

Seq. No.	54159	Seq. ID	OJ990315_09.0421.C8
Gene No.	113630	Strand	-
Start	3778	End	4814
Name	OJ990315_09.0421.C8.o2.tc	Method	TBLASTX:Cress
Start	3772	End	4318
GI	none	Score	72
Exons	3772..3852, 4000..4086, 4000..4086, 4184..4318, 4190..4318		

Seq. No.	54159	Seq. ID	OJ990315_09.0421.C8
Gene No.	113630	Strand	-
Start	3778	End	4814
Name	OJ990315_09.0421.C8.o2.ts	Method	TBLASTX:Soybean
Start	3772	End	4316
GI	none	Score	61
Exons	3772..3852, 3997..4062, 4184..4306, 4184..4315, 4188..4316		

Seq. No.	54159	Seq. ID	OJ990315_09.0421.C8
Gene No.	113630	Strand	-
Start	3778	End	4814
Name	OJ990315_09.0421.C8.o2.gs	Method	GENSCAN
Start	3778	End	4814
GI	none	Score	.62
Exons	3778..3853, 3998..4088, 4189..4315, 4386..4595, 4631..4814		

Seq. No.	54159	Seq. ID	OJ990315_09.0421.C8
Gene No.	113630	Strand	-
Start	3778	End	4814
Name	OJ990315_09.0421.C8.o2.np	Method	AAT/NAP
Start	3781	End	4306
GI	416641	Score	197
Exons	3781..3853, 3998..4088, 4180..4306		
GI Descrip.	INDOLE-3-ACETIC ACID INDUCED PROTEIN ARG4 gi|287568|dbj|BAA03309| (D14413) ORF [Vigna radiata]		

Seq. No.	54159	Seq. ID	OJ990315_09.0421.C8
Gene No.	113630	Strand	-
Start	3778	End	4814
Name	OJ990315_09.0421.C8.o2.tm	Method	TBLASTX:Maize
Start	3781	End	4318
GI	none	Score	83
Exons	3781..3855, 3997..4086, 3997..4098, 4202..4318, 4205..4309		

Seq. No.	54160	Seq. ID	OJ990315_09.0421.C10
Gene No.	113631	Strand	+
Start	89	End	206
Name	OJ990315_09.0421.C10.o1.gs	Method	GENSCAN
Start	89	End	206
GI	none	Score	.54
Exons	89..206		

Seq. No.	54160	Seq. ID	OJ990315_09.0421.C10
Gene No.	113632	Strand	-
Start	981	End	4249
Name	OJ990315_09.0421.C10.o2.gs	Method	GENSCAN
Start	981	End	4249
GI	none	Score	.7
Exons	981..1208, 1492..1734, 1817..1932, 2016..2112, 4157..4249		

Seq. No.	54160	Seq. ID	OJ990315_09.0421.C10
Gene No.	113632	Strand	-
Start	981	End	4249
Name	OJ990315_09.0421.C10.o1.tm	Method	TBLASTX:Maize
Start	1239	End	4249
GI	none	Score	118
Exons	1239..1385, 1268..1384, 1268..1387, 1480..1632, 1496..1603, 1546..1734, 1611..1658, 1649..1735, 1656..1739, 1816..1932, 1817..1933, 1818..1934, 1859..1933, 2003..2077, 2008..2040, 2017..2115, 2018..2113, 4154..4249, 4154..4243, 4154..4237		

Seq. No.	54160	Seq. ID	OJ990315_09.0421.C10
Gene No.	113632	Strand	-
Start	981	End	4249
Name	OJ990315_09.0421.C10.o1.np	Method	AAT/NAP
Start	1298	End	4249
GI	7485798	Score	433
Exons	1298..1375, 1492..1637, 1840..1932, 2016..2112, 4157..4249		
GI Descrip.	hypothetical protein F19H22.60 - Arabidopsis thaliana gi|4539315|emb|CAB38816.1| (AL035679) putative zinc finger protein [Arabidopsis thaliana] gi|7270879|emb|CAB80559.1| (AL161594) putative zinc finger protein [Arabidopsis thaliana]		

Seq. No.	54160	Seq. ID	OJ990315_09.0421.C10
Gene No.	113632	Strand	-
Start	981	End	4249
Name	OJ990315_09.0421.C10.o1.ts	Method	TBLASTX:Soybean
Start	1492	End	4243
GI	none	Score	38
Exons	1492..1617, 1617..1676, 1696..1737, 1710..1739, 1817..1933, 1818..1958, 1827..1934, 1843..1935, 1859..1936, 2008..2040, 2017..2115, 2018..2152, 4154..4243, 4163..4237		

Seq. No.	54160	Seq. ID	OJ990315_09.0421.C10
Gene No.	113632	Strand	-
Start	981	End	4249
Name	OJ990315_09.0421.C10.o1.tc	Method	TBLASTX:Cress
Start	1717	End	4240
GI	none	Score	121
Exons	1717..1734, 1817..1894, 1859..1936, 1889..1942, 2008..2040, 2017..2115, 2018..2113, 4154..4240		

Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113633	Strand	+
Start	4517	End	8947
Name	OJ990315_09.0421.C11.o2.gs	Method	GENSCAN
Start	4517	End	8947
GI	none	Score	.65
Exons	4517..4591, 4727..5296, 5382..5495, 5589..5660, 5940..6029, 6089..6213, 6340..6673, 6797..6913, 7014..7769, 7900..8150, 8234..8519, 8741..8947		

Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113633	Strand	+
Start	4517	End	8947
Name	OJ990315_09.0421.C11.o2.np	Method	AAT/NAP
Start	4733	End	8545
GI	7485797	Score	1288
Exons	4733..4919, 4994..5083, 5196..5296, 5382..5495, 5589..5711, 5768..5852, 6089..6213, 6340..6673, 6797..6896, 7006..7257, 7520..8129, 8198..8545		
GI Descrip.	hypothetical protein F19H22.50 - Arabidopsis thaliana gi|4539314|emb|CAB38815.1| (AL035679) kinesin like protein [Arabidopsis thaliana] gi|7270878|emb|CAB80558.1| (AL161594) kinesin like protein [Arabidopsis thaliana]		

Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113634	Strand	+
Start	9353	End	12354
Name	OJ990315_09.0421.C11.o3.gs	Method	GENSCAN
Start	9353	End	12354
GI	none	Score	.55
Exons	9353..9556, 12220..12354		

Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113634	Strand	+
Start	9353	End	12354
Name	OJ990315_09.0421.C11.o3.np	Method	AAT/NAP
Start	9353	End	9537

GI	1350889	Score	289
Exons	9353..9537		
GI Descrip.	PUTATIVE 30S RIBOSOMAL PROTEIN S31, CHLOROPLAST PRECURSOR		

Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113634	Strand	+
Start	9353	End	12354
Name	OJ990315_09.0421.C11.o2.gp	Method	AAT/GAP
Start	9518	End	9934
GI	2798553	Score	726
Exons	9518..9934		

Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113635	Strand	-
Start	67	End	3506
Name	OJ990315_09.0421.C11.o1.gs	Method	GENSCAN
Start	67	End	2872
GI	none	Score	.5
Exons	67..189, 1620..1783, 1943..2055, 2808..2872		

Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113635	Strand	-
Start	67	End	3506
Name	OJ990315_09.0421.C11.o1.np	Method	AAT/NAP
Start	1660	End	3506
GI	5852093	Score	93
Exons	1660..1714, 3369..3506		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113636	Strand	-
Start	5990	End	6620
Name	OJ990315_09.0421.C11.o2.tm	Method	TBLASTX:Maize
Start	5195	End	5849
GI	none	Score	147
Exons	5195..5296, 5197..5250, 5379..5495, 5381..5494, 5586..5669, 5782..5844, 5783..5848, 5784..5849		

Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113636	Strand	-
Start	5990	End	6620
Name	OJ990315_09.0421.C11.o3.ts	Method	TBLASTX:Soybean
Start	5213	End	5999
GI	none	Score	128
Exons	5213..5296, 5215..5250, 5351..5461, 5379..5462, 5447..5593, 5448..5495, 5571..5669, 5765..5848, 5784..5852, 5939..5998, 5940..5999		

Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113636	Strand	-
Start	5990	End	6620
Name	OJ990315_09.0421.C11.o1.tc	Method	TBLASTX:Cress
Start	5420	End	6148
GI	none	Score	106
Exons	5420..5494, 5421..5495, 5571..5669, 5586..5669, 5784..5852, 5795..5848, 5939..6004, 5940..6005, 6088..6147, 6089..6148		

Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113636	Strand	-
Start	5990	End	6620
Name	OJ990315_09.0421.C11.o5.tm	Method	TBLASTX:Maize
Start	5940	End	6213
GI	none	Score	62
Exons	5940..5999, 6089..6211, 6089..6202, 6091..6213		

Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113636	Strand	-
Start	5990	End	6620
Name	OJ990315_09.0421.C11.o1.gp	Method	AAT/GAP
Start	5990	End	6423
GI	uC-osflcyp172a08b1	Score	864
Exons	5990..6423		
GI Descrip.	'2262101/gb|AAB63609.1| 2.0e-21 (AC002343) kinesin heavy chain isolog [Arabidopsis thaliana]'		

Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113636	Strand	-
Start	5990	End	6620
Name	OJ990315_09.0421.C11.o2.ts	Method	TBLASTX:Soybean
Start	6130	End	6620
GI	none	Score	96
Exons	6130..6213, 6131..6211, 6337..6603, 6338..6604, 6342..6620		

Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113636	Strand	-
Start	5990	End	6620
Name	OJ990315_09.0421.C11.o4.tm	Method	TBLASTX:Maize
Start	6350	End	6601
GI	none	Score	193
Exons	6350..6601, 6352..6528		

Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113637	Strand	
Start	7930	End	8492
Name	OJ990315_09.0421.C11.o1.tm	Method	TBLASTX:Maize
Start	7930	End	8492
GI	none	Score	253
Exons	7930..8109, 7933..8106, 7950..8156, 8228..8389, 8232..8390, 8394..8492, 8402..8488		

Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113637	Strand	
Start	7930	End	8492
Name	OJ990315_09.0421.C11.o1.ts	Method	TBLASTX:Soybean
Start	7942	End	8492
GI	none	Score	197
Exons	7942..8109, 7942..8100, 7971..8102, 8228..8491, 8232..8492		

Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113638	Strand	
Start	9418	End	9601
Name	OJ990315_09.0421.C11.o4.ts	Method	TBLASTX:Soybean
Start	9418	End	9601
GI	none	Score	133

Exons	9418..9600, 9460..9600, 9494..9601		
Seq. No.	54161	Seq. ID	OJ990315_09.0421.C11
Gene No.	113638	Strand	
Start	9418	End	9601
Name	OJ990315_09.0421.C11.o3.tm	Method	TBLASTX:Maize
Start	9424	End	9573
GI	none	Score	169
Exons	9424..9573, 9460..9570		
Seq. No.	54162	Seq. ID	OJ990315_09.0421.C12
Gene No.	113639	Strand	+
Start	8723	End	8880
Name	OJ990315_09.0421.C12.o1.gp	Method	AAT/GAP
Start	8723	End	8880
GI	5006856	Score	312
Exons	8723..8880		
GI Descrip.	5006857/gb|AAD37699.1|AF145730_1 6.0e-95 (AF145730) homeodomain leucine zipper protein [Oryza sativa]		
Seq. No.	54162	Seq. ID	OJ990315_09.0421.C12
Gene No.	113639	Strand	+
Start	8723	End	8880
Name	OJ990315_09.0421.C12.o1.np	Method	AAT/NAP
Start	8725	End	8880
GI	5006857	Score	271
Exons	8725..8880		
GI Descrip.	(AF145730) homeodomain leucine zipper protein [Oryza sativa]		
Seq. No.	54163	Seq. ID	OJ990315_09.0421.C13
Gene No.	113640	Strand	+
Start	212	End	1497
Name	OJ990315_09.0421.C13.o1.gp	Method	AAT/GAP
Start	212	End	1497
GI	5006856	Score	1960
Exons	212..633, 728..889, 1067..1497		
GI Descrip.	5006857/gb|AAD37699.1|AF145730_1 6.0e-95 (AF145730) homeodomain leucine zipper protein [Oryza sativa]		
Seq. No.	54163	Seq. ID	OJ990315_09.0421.C13
Gene No.	113640	Strand	+
Start	212	End	1497
Name	OJ990315_09.0421.C13.o1.np	Method	AAT/NAP
Start	214	End	1120
GI	5006857	Score	1019
Exons	214..633, 728..889, 1067..1120		
GI Descrip.	(AF145730) homeodomain leucine zipper protein [Oryza sativa]		
Seq. No.	54163	Seq. ID	OJ990315_09.0421.C13
Gene No.	113640	Strand	+
Start	212	End	1497
Name	OJ990315_09.0421.C13.o1.gs	Method	GENSCAN
Start	280	End	1123
GI	none	Score	.95
Exons	280..717, 728..1123		
Seq. No.	54163	Seq. ID	OJ990315_09.0421.C13

Gene No.	113641	Strand	-
Start	2033	End	2596
Name	OJ990315_09.0421.C13.o1.tm	Method	TBLASTX:Maize
Start	262	End	784
GI	none	Score	427
Exons	262..324, 370..633, 372..536, 725..784		

Seq. No.	54163	Seq. ID	OJ990315_09.0421.C13
Gene No.	113641	Strand	-
Start	2033	End	2596
Name	OJ990315_09.0421.C13.o1.ts	Method	TBLASTX:Soybean
Start	363	End	624
GI	none	Score	315
Exons	363..530, 364..624		

Seq. No.	54163	Seq. ID	OJ990315_09.0421.C13
Gene No.	113641	Strand	-
Start	2033	End	2596
Name	OJ990315_09.0421.C13.o1.tw	Method	TBLASTX:Wheat
Start	363	End	561
GI	none	Score	237
Exons	363..536, 364..561		

Seq. No.	54163	Seq. ID	OJ990315_09.0421.C13
Gene No.	113641	Strand	-
Start	2033	End	2596
Name	OJ990315_09.0421.C13.o1.tc	Method	TBLASTX:Cress
Start	364	End	633
GI	none	Score	338
Exons	364..633, 378..536		

Seq. No.	54163	Seq. ID	OJ990315_09.0421.C13
Gene No.	113641	Strand	-
Start	2033	End	2596
Name	OJ990315_09.0421.C13.o2.gs	Method	GENSCAN
Start	2033	End	2596
GI	none	Score	.42
Exons	2033..2074, 2080..2111, 2237..2276, 2451..2596		

Seq. No.	54164	Seq. ID	OJ990315_09.0421.C17
Gene No.	113642	Strand	+
Start	258	End	603
Name	OJ990315_09.0421.C17.o1.gs	Method	GENSCAN
Start	258	End	603
GI	none	Score	.5
Exons	258..331, 507..603		

Seq. No.	54165	Seq. ID	OJ990315_09.0421.C18
Gene No.	113643	Strand	+
Start	2155	End	6084
Name	OJ990315_09.0421.C18.o1.gs	Method	GENSCAN
Start	2155	End	6084
GI	none	Score	.46
Exons	2155..2308, 2320..2514, 2602..2662, 3119..3141, 3410..3786, 4315..4382, 4442..4843, 5094..5764, 5983..6084		

Seq. No.	54165	Seq. ID	OJ990315_09.0421.C18

Gene No.	113643	Strand	+
Start	2155	End	6084
Name	OJ990315_09.0421.C18.o1.tm	Method	TBLASTX:Maize
Start	4984	End	5587
GI	none	Score	94
Exons	4984..5034, 4991..5071, 5156..5482, 5168..5404, 5239..5457, 5537..5587, 5545..5571		

Seq. No.	54165	Seq. ID	OJ990315_09.0421.C18
Gene No.	113643	Strand	+
Start	2155	End	6084
Name	OJ990315_09.0421.C18.o1.np	Method	AAT/NAP
Start	4987	End	5965
GI	479357	Score	582
Exons	4987..5965		
GI Descrip.	hypothetical protein 612 - maize transposon MuA2 gi|22375|emb|CAA44165| (X62251) ORF [Zea mays]		

Seq. No.	54166	Seq. ID	OJ990315_09.0421.C19
Gene No.	113644	Strand	+
Start	1450	End	1949
Name	OJ990315_09.0421.C19.o1.gp	Method	AAT/GAP
Start	1450	End	1949
GI	uC-osf1M202046d07b1	Score	952
Exons	1450..1949		
GI Descrip.	'2252840 3.0e-09 (AF013293) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana] >gi_6049882_gb_AAF02797.1_AF195115_17 (AF195115) contains regions of similarity to Haemophilus influenzae permease (SP:P38767) [Arabidopsis thaliana]'		

Seq. No.	54166	Seq. ID	OJ990315_09.0421.C19
Gene No.	113645	Strand	+
Start	2009	End	4759
Name	OJ990315_09.0421.C19.o1.np	Method	AAT/NAP
Start	2009	End	4759
GI	6850882	Score	1081
Exons	2009..2192, 2330..2524, 2620..2737, 2850..3299, 3339..3587, 3676..3777, 3875..4108, 4736..4759		
GI Descrip.	(AL137898) homeobox protein [Arabidopsis thaliana]		

Seq. No.	54166	Seq. ID	OJ990315_09.0421.C19
Gene No.	113645	Strand	+
Start	2009	End	4759
Name	OJ990315_09.0421.C19.o2.gs	Method	GENSCAN
Start	2009	End	4532
GI	none	Score	.88
Exons	2009..2173, 2274..2524, 2620..2737, 2850..3587, 3676..3777, 3875..4108, 4331..4532		

Seq. No.	54166	Seq. ID	OJ990315_09.0421.C19
Gene No.	113645	Strand	+
Start	2009	End	4759
Name	OJ990315_09.0421.C19.o1.tc	Method	TBLASTX:Cress
Start	2382	End	4113
GI	none	Score	103
Exons	2382..2489, 2445..2525, 2483..2521, 2618..2746, 2623..2736,		

2687..2740, 2847..3077, 3375..3482, 3386..3478, 3500..3583,
3501..3587, 3678..3776, 3679..3783, 3874..3960, 3875..3997,
4054..4113, 4055..4111

Seq. No.	54166	Seq. ID	OJ990315_09.0421.C19
Gene No.	113645	Strand	+
Start	2009	End	4759
Name	OJ990315_09.0421.C19.o1.ts	Method	TBLASTX:Soybean
Start	2382	End	2978
GI	none	Score	101
Exons	2382..2489, 2445..2525, 2618..2746, 2624..2737, 2847..2978		

Seq. No.	54166	Seq. ID	OJ990315_09.0421.C19
Gene No.	113645	Strand	+
Start	2009	End	4759
Name	OJ990315_09.0421.C19.o2.tm	Method	TBLASTX:Maize
Start	2663	End	3080
GI	none	Score	103
Exons	2663..2737, 2847..3080		

Seq. No.	54166	Seq. ID	OJ990315_09.0421.C19
Gene No.	113645	Strand	+
Start	2009	End	4759
Name	OJ990315_09.0421.C19.o1.tm	Method	TBLASTX:Maize
Start	3351	End	3955
GI	none	Score	88
Exons	3351..3422, 3375..3437, 3437..3586, 3438..3587, 3678..3770, 3679..3780, 3874..3954, 3875..3955		

Seq. No.	54166	Seq. ID	OJ990315_09.0421.C19
Gene No.	113645	Strand	+
Start	2009	End	4759
Name	OJ990315_09.0421.C19.o2.ts	Method	TBLASTX:Soybean
Start	3387	End	4111
GI	none	Score	103
Exons	3387..3506, 3503..3589, 3504..3587, 3679..3780, 3681..3764, 3874..3963, 3875..3991, 4046..4111		

Seq. No.	54167	Seq. ID	OJ990315_09.0421.C20
Gene No.	113646	Strand	+
Start	1	End	3290
Name	OJ990315_09.0421.C20.o1.np	Method	AAT/NAP
Start	1	End	3290
GI	3925363	Score	880
Exons	1..63, 727..919, 997..1108, 1148..1411, 2888..3290		
GI Descrip.	(AF067961) homeodomain protein [Malus domestica]		

Seq. No.	54167	Seq. ID	OJ990315_09.0421.C20
Gene No.	113646	Strand	+
Start	1	End	3290
Name	OJ990315_09.0421.C20.o1.gs	Method	GENSCAN
Start	745	End	1514
GI	none	Score	.78
Exons	745..919, 997..1406, 1509..1514		

Seq. No.	54167	Seq. ID	OJ990315_09.0421.C20
Gene No.	113647	Strand	+

Start	3414	End	3608
Name	OJ990315_09.0421.C20.o1.gp	Method	AAT/GAP
Start	3414	End	3608
GI	3106499	Score	308
Exons	3414..3608		

Seq. No.	54167	Seq. ID	OJ990315_09.0421.C20
Gene No.	113648	Strand	-
Start	2934	End	7830
Name	OJ990315_09.0421.C20.o1.tc	Method	TBLASTX:Cress
Start	742	End	3281
GI	none	Score	206
Exons	742..915, 762..896, 996..1103, 998..1075, 1166..1252, 1167..1253, 1263..1379, 1324..1362, 2870..3067, 2880..3068, 3156..3188, 3185..3280, 3189..3281		

Seq. No.	54167	Seq. ID	OJ990315_09.0421.C20
Gene No.	113648	Strand	-
Start	2934	End	7830
Name	OJ990315_09.0421.C20.o1.ts	Method	TBLASTX:Soybean
Start	742	End	1382
GI	none	Score	216
Exons	742..918, 762..914, 980..1087, 993..1106, 1166..1252, 1167..1253, 1266..1382, 1317..1382		

Seq. No.	54167	Seq. ID	OJ990315_09.0421.C20
Gene No.	113648	Strand	-
Start	2934	End	7830
Name	OJ990315_09.0421.C20.o2.tm	Method	TBLASTX:Maize
Start	742	End	3281
GI	none	Score	96
Exons	742..813, 2879..3064, 2880..3056, 3152..3280, 3153..3281, 3156..3281		

Seq. No.	54167	Seq. ID	OJ990315_09.0421.C20
Gene No.	113648	Strand	-
Start	2934	End	7830
Name	OJ990315_09.0421.C20.o1.tm	Method	TBLASTX:Maize
Start	813	End	1412
GI	none	Score	183
Exons	813..917, 814..918, 992..1090, 993..1115, 1164..1412, 1166..1258, 1221..1409, 1322..1411		

Seq. No.	54167	Seq. ID	OJ990315_09.0421.C20
Gene No.	113648	Strand	-
Start	2934	End	7830
Name	OJ990315_09.0421.C20.o2.ts	Method	TBLASTX:Soybean
Start	2879	End	3444
GI	none	Score	251
Exons	2879..3055, 2880..3080, 3150..3266, 3152..3268, 3152..3277, 3156..3278, 3388..3444		

Seq. No.	54167	Seq. ID	OJ990315_09.0421.C20
Gene No.	113648	Strand	-
Start	2934	End	7830
Name	OJ990315_09.0421.C20.o2.gs	Method	GENSCAN
Start	2934	End	7830

GI	none	Score	.6
Exons	2934..3191, 3212..3375, 3598..3651, 6908..6969, 7397..7578, 7642..7830		

Seq. No.	54168	Seq. ID	OJ990315_09.0421.C21
Gene No.	113649	Strand	-
Start	3475	End	5059
Name	OJ990315_09.0421.C21.o2.gs	Method	GENSCAN
Start	3475	End	5059
GI	none	Score	.84
Exons	3475..3677, 4187..4207, 5017..5059		

Seq. No.	54169	Seq. ID	OJ990315_09.0421.C24
Gene No.	113650	Strand	-
Start	1	End	705
Name	OJ990315_09.0421.C24.o1.gp	Method	AAT/GAP
Start	1	End	302
GI	1854325	Score	592
Exons	1..302		

Seq. No.	54169	Seq. ID	OJ990315_09.0421.C24
Gene No.	113650	Strand	-
Start	1	End	705
Name	OJ990315_09.0421.C24.o1.tm	Method	TBLASTX:Maize
Start	1	End	273
GI	none	Score	172
Exons	1..156, 2..157, 223..273		

Seq. No.	54169	Seq. ID	OJ990315_09.0421.C24
Gene No.	113650	Strand	-
Start	1	End	705
Name	OJ990315_09.0421.C24.o1.gs	Method	GENSCAN
Start	56	End	705
GI	none	Score	.97
Exons	56..125, 696..705		

Seq. No.	54170	Seq. ID	OJ990315_09.0421.C25
Gene No.	113651	Strand	-
Start	26	End	394
Name	OJ990315_09.0421.C25.o1.gs	Method	GENSCAN
Start	26	End	394
GI	none	Score	.74
Exons	26..394		

Seq. No.	54171	Seq. ID	OJ990315_09.0421.C28
Gene No.	113652	Strand	+
Start	472	End	665
Name	OJ990315_09.0421.C28.o1.gs	Method	GENSCAN
Start	472	End	665
GI	none	Score	.4
Exons	472..665		

Seq. No.	54172	Seq. ID	OJ000102_80.0426.C2
Gene No.	113653	Strand	+
Start	526	End	744
Name	OJ000102_80.0426.C2.o1.gs	Method	GENSCAN
Start	526	End	744

GI	none	Score	.75
Exons	526..744		

Seq. No.	54172	Seq. ID	OJ000102_80.0426.C2
Gene No.	113654	Strand	-
Start	176	End	733
Name	OJ000102_80.0426.C2.o1.gp	Method	AAT/GAP
Start	176	End	733
GI	none	Score	1084
Exons	176..733		

Seq. No.	54172	Seq. ID	OJ000102_80.0426.C2
Gene No.	113655	Strand	-
Start	1579	End	2423
Name	OJ000102_80.0426.C2.o2.gs	Method	GENSCAN
Start	1579	End	2423
GI	none	Score	.57
Exons	1579..1605, 2138..2201, 2260..2423		

Seq. No.	54173	Seq. ID	OJ000102_80.0426.C3
Gene No.	113656	Strand	-
Start	1	End	3189
Name	OJ000102_80.0426.C3.o1.np	Method	AAT/NAP
Start	1	End	1933
GI	6967109	Score	201
Exons	1..385, 1890..1933		
GI Descrip.	(AL138652) protein kinase-like protein [Arabidopsis thaliana]		

Seq. No.	54173	Seq. ID	OJ000102_80.0426.C3
Gene No.	113656	Strand	-
Start	1	End	3189
Name	OJ000102_80.0426.C3.o1.gs	Method	GENSCAN
Start	7	End	3189
GI	none	Score	.94
Exons	7..385, 3152..3189		

Seq. No.	54174	Seq. ID	OJ000102_80.0426.C4
Gene No.	113657	Strand	+
Start	1545	End	4630
Name	OJ000102_80.0426.C4.o1.gs	Method	GENSCAN
Start	1545	End	4630
GI	none	Score	.54
Exons	1545..1717, 4212..4400, 4468..4630		

Seq. No.	54174	Seq. ID	OJ000102_80.0426.C4
Gene No.	113658	Strand	-
Start	3905	End	4490
Name	OJ000102_80.0426.C4.o1.gp	Method	AAT/GAP
Start	3905	End	4490
GI	LIB3433-051-P1-K1-H5	Score	407
Exons	3905..3944, 4219..4490		
GI Descrip.	'474008/dbj|D29729|RICYK43 1.0e-75 Rice mRNA, partial homologous to ribosomal protein S15 gene'		

Seq. No.	54174	Seq. ID	OJ000102_80.0426.C4
Gene No.	113659	Strand	-
Start	4677	End	6025

Name	OJ000102_80.0426.C4.o2.gp	Method	AAT/GAP
Start	4677	End	5081
GI	none	Score	553
Exons	4677..5081		

Seq. No.	54174	Seq. ID	OJ000102_80.0426.C4
Gene No.	113659	Strand	-
Start	4677	End	6025
Name	OJ000102_80.0426.C4.o2.gs	Method	GENSCAN
Start	4766	End	6025
GI	none	Score	.4
Exons	4766..4780, 4846..5251, 5365..5528, 5849..6025		

Seq. No.	54174	Seq. ID	OJ000102_80.0426.C4
Gene No.	113659	Strand	-
Start	4677	End	6025
Name	OJ000102_80.0426.C4.o3.gp	Method	AAT/GAP
Start	5174	End	5541
GI	uC-osrocyp010c05b1	Score	606
Exons	5174..5541		
GI Descrip.	'1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	54175	Seq. ID	OJ000102_80.0426.C5
Gene No.	113660	Strand	+
Start	2745	End	4455
Name	OJ000102_80.0426.C5.o1.gs	Method	GENSCAN
Start	2745	End	4175
GI	none	Score	.6
Exons	2745..2859, 3486..3612, 3953..4175		

Seq. No.	54175	Seq. ID	OJ000102_80.0426.C5
Gene No.	113660	Strand	+
Start	2745	End	4455
Name	OJ000102_80.0426.C5.o1.gp	Method	AAT/GAP
Start	3395	End	4455
GI	60650_1.R1084	Score	1389
Exons	3395..3612, 3953..4455		
GI Descrip.	'169459 1.0e-08 (M18538) pop3 peptide [Populus balsamifera subsp. trichocarpa X Populus deltoides]'		

Seq. No.	54175	Seq. ID	OJ000102_80.0426.C5
Gene No.	113661	Strand	-
Start	7315	End	14813
Name	OJ000102_80.0426.C5.o1.tm	Method	TBLASTX:Maize
Start	1904	End	2086
GI	none	Score	235
Exons	1904..2086, 1906..2085		

Seq. No.	54175	Seq. ID	OJ000102_80.0426.C5
Gene No.	113661	Strand	-
Start	7315	End	14813
Name	OJ000102_80.0426.C5.o2.tm	Method	TBLASTX:Maize
Start	3490	End	4138
GI	none	Score	161
Exons	3490..3612, 3494..3613, 3494..3613, 3940..4020, 3941..4060, 3944..4138, 3954..4103		

Seq. No.	54175	Seq. ID	OJ000102_80.0426.C5
Gene No.	113661	Strand	-
Start	7315	End	14813
Name	OJ000102_80.0426.C5.o1.tw	Method	TBLASTX:Wheat
Start	3505	End	4103
GI	none	Score	124
Exons	3505..3612, 3506..3613, 3506..3613, 3942..4103, 3942..4088, 3944..4102		

Seq. No.	54175	Seq. ID	OJ000102_80.0426.C5
Gene No.	113661	Strand	-
Start	7315	End	14813
Name	OJ000102_80.0426.C5.o2.gs	Method	GENSCAN
Start	7315	End	14813
GI	none	Score	.82
Exons	7315..8406, 9187..9324, 10136..10238, 14150..14256, 14371..14439, 14616..14813		

Seq. No.	54175	Seq. ID	OJ000102_80.0426.C5
Gene No.	113661	Strand	-
Start	7315	End	14813
Name	OJ000102_80.0426.C5.o2.np	Method	AAT/NAP
Start	7324	End	8295
GI	3860255	Score	299
Exons	7324..7907, 7950..8295		
GI Descrip.	(AC005824) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54175	Seq. ID	OJ000102_80.0426.C5
Gene No.	113661	Strand	-
Start	7315	End	14813
Name	OJ000102_80.0426.C5.o1.ts	Method	TBLASTX:Soybean
Start	7363	End	7548
GI	none	Score	66
Exons	7363..7548, 7418..7534		

Seq. No.	54176	Seq. ID	OJ000102_80.0426.C6
Gene No.	113662	Strand	+
Start	6795	End	8139
Name	OJ000102_80.0426.C6.o3.np	Method	AAT/NAP
Start	6795	End	8139
GI	6630699	Score	75
Exons	6795..6817, 8062..8139		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	54176	Seq. ID	OJ000102_80.0426.C6
Gene No.	113663	Strand	-
Start	63	End	8014
Name	OJ000102_80.0426.C6.o1.gs	Method	GENSCAN
Start	63	End	2851
GI	none	Score	.82
Exons	63..219, 904..1002, 1086..1139, 1618..1716, 1906..2024, 2110..2326, 2426..2851		

Seq. No.	54176	Seq. ID	OJ000102_80.0426.C6

Gene No.	113663	Strand	-
Start	63	End	8014
Name	OJ000102_80.0426.C6.o1.gp	Method	AAT/GAP
Start	978	End	2678
GI	4714933	Score	1225
Exons	978..1002, 1086..1139, 1618..1716, 1906..2024, 2172..2326, 2426..2678		
GI Descrip.	1651723/dbj|BAA16651| 1.0e-10 (D90899) phosphoglycerate mutase [Synechocystis sp.]		

Seq. No.	54176	Seq. ID	OJ000102_80.0426.C6
Gene No.	113663	Strand	-
Start	63	End	8014
Name	OJ000102_80.0426.C6.o1.np	Method	AAT/NAP
Start	2391	End	5144
GI	7339718	Score	192
Exons	2391..2695, 5114..5144		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	54176	Seq. ID	OJ000102_80.0426.C6
Gene No.	113663	Strand	-
Start	63	End	8014
Name	OJ000102_80.0426.C6.o2.gs	Method	GENSCAN
Start	4554	End	8014
GI	none	Score	.57
Exons	4554..4668, 5359..5528, 5895..6088, 6282..6399, 6847..7097, 7876..8014		

Seq. No.	54176	Seq. ID	OJ000102_80.0426.C6
Gene No.	113663	Strand	-
Start	63	End	8014
Name	OJ000102_80.0426.C6.o2.np	Method	AAT/NAP
Start	4557	End	8001
GI	5922620	Score	359
Exons	4557..4733, 5348..5463, 6068..6265, 6364..6550, 7940..8001		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54176	Seq. ID	OJ000102_80.0426.C6
Gene No.	113664	Strand	-
Start	8278	End	8410
Name	OJ000102_80.0426.C6.o4.np	Method	AAT/NAP
Start	8278	End	8410
GI	5922620	Score	180
Exons	8278..8410		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54176	Seq. ID	OJ000102_80.0426.C6
Gene No.	113665	Strand	-
Start	9614	End	11534

Name	OJ000102_80.0426.C6.o3.gs	Method	GENSCAN
Start	9614	End	11136
GI	none	Score	.9
Exons	9614..10660, 10696..11136		

Seq. No.	54176	Seq. ID	OJ000102_80.0426.C6
Gene No.	113665	Strand	-
Start	9614	End	11534
Name	OJ000102_80.0426.C6.o5.np	Method	AAT/NAP
Start	9614	End	11534
GI	7340655	Score	537
Exons	9614..11040, 11445..11534		
GI Descrip.	(AL162506) S-receptor kinase-like protein [Arabidopsis thaliana]		

Seq. No.	54176	Seq. ID	OJ000102_80.0426.C6
Gene No.	113666	Strand	-
Start	13156	End	13332
Name	OJ000102_80.0426.C6.o1.tm	Method	TBLASTX:Maize
Start	1086	End	2153
GI	none	Score	70
Exons	1086..1142, 1087..1128, 1087..1158, 1615..1722, 1619..1720, 1623..1733, 1625..1732, 1873..2028, 1900..2025, 1901..2047, 1904..2029, 2096..2149, 2108..2152, 2109..2153		

Seq. No.	54176	Seq. ID	OJ000102_80.0426.C6
Gene No.	113666	Strand	-
Start	13156	End	13332
Name	OJ000102_80.0426.C6.o2.tc	Method	TBLASTX:Cress
Start	2106	End	2333
GI	none	Score	142
Exons	2106..2333, 2108..2329		

Seq. No.	54176	Seq. ID	OJ000102_80.0426.C6
Gene No.	113666	Strand	-
Start	13156	End	13332
Name	OJ000102_80.0426.C6.o1.tc	Method	TBLASTX:Cress
Start	2426	End	2692
GI	none	Score	169
Exons	2426..2692, 2496..2672		

Seq. No.	54176	Seq. ID	OJ000102_80.0426.C6
Gene No.	113666	Strand	-
Start	13156	End	13332
Name	OJ000102_80.0426.C6.o2.ts	Method	TBLASTX:Soybean
Start	2495	End	2692
GI	none	Score	102
Exons	2495..2692, 2496..2672		

Seq. No.	54176	Seq. ID	OJ000102_80.0426.C6
Gene No.	113666	Strand	-
Start	13156	End	13332
Name	OJ000102_80.0426.C6.o2.tm	Method	TBLASTX:Maize
Start	4019	End	4320
GI	none	Score	157
Exons	4019..4294, 4041..4316, 4042..4320, 4051..4299, 4056..4316		

Seq. No.	54176	Seq. ID	OJ000102_80.0426.C6

Gene No.	113666	Strand	-
Start	13156	End	13332
Name	OJ000102_80.0426.C6.o1.ts	Method	TBLASTX:Soybean
Start	9869	End	10459
GI	none	Score	66
Exons	9869..10114, 10172..10282, 10188..10235, 10289..10351, 10361..10459		

Seq. No.	54176	Seq. ID	OJ000102_80.0426.C6
Gene No.	113666	Strand	-
Start	13156	End	13332
Name	OJ000102_80.0426.C6.o4.gs	Method	GENSCAN
Start	13156	End	13332
GI	none	Score	.52
Exons	13156..13332		

Seq. No.	54177	Seq. ID	OJ000102_80.0426.C7
Gene No.	113667	Strand	-
Start	669	End	3520
Name	OJ000102_80.0426.C7.o1.gs	Method	GENSCAN
Start	669	End	3431
GI	none	Score	.62
Exons	669..989, 1378..1610, 1674..2116, 2174..2196, 2312..2413, 2460..2567, 2660..2921, 3026..3324, 3405..3431		

Seq. No.	54177	Seq. ID	OJ000102_80.0426.C7
Gene No.	113667	Strand	-
Start	669	End	3520
Name	OJ000102_80.0426.C7.o1.np	Method	AAT/NAP
Start	669	End	3520
GI	7228438	Score	806
Exons	669..1090, 2417..2567, 2660..2921, 3026..3324, 3405..3520		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog (AC003981) [Oryza sativa]		

Seq. No.	54177	Seq. ID	OJ000102_80.0426.C7
Gene No.	113667	Strand	-
Start	669	End	3520
Name	OJ000102_80.0426.C7.o1.gp	Method	AAT/GAP
Start	1981	End	2428
GI	LIB3433-020-P1-K1-A6	Score	731
Exons	1981..2428		
GI Descrip.	'5670155/gb|AF161269.1|AF161269 2.0e-35 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	54178	Seq. ID	OJ000102_80.0426.C8
Gene No.	113668	Strand	-
Start	1	End	1295
Name	OJ000102_80.0426.C8.o1.np	Method	AAT/NAP
Start	1	End	1295
GI	5441880	Score	607
Exons	1..231, 340..479, 1081..1295		
GI Descrip.	(AP000367) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein. (AC003981) [Oryza sativa]		

Seq. No.	54178	Seq. ID	OJ000102_80.0426.C8
Gene No.	113668	Strand	-
Start	1	End	1295
Name	OJ000102_80.0426.C8.o1.gs	Method	GENSCAN
Start	110	End	1214
GI	none	Score	.54
Exons	110..264, 340..413, 711..739, 960..1214		

Seq. No.	54179	Seq. ID	OJ000102_80.0426.C9
Gene No.	113669	Strand	-
Start	1	End	1987
Name	OJ000102_80.0426.C9.o1.np	Method	AAT/NAP
Start	1	End	1987
GI	7228442	Score	2182
Exons	1..1987		
GI Descrip.	(AP001366) EST C28952(C62945) corresponds to a region of the predicted gene.; Similar to maize transposon MuDR mudrA protein isolog. (AC003981) [Oryza sativa]		

Seq. No.	54179	Seq. ID	OJ000102_80.0426.C9
Gene No.	113670	Strand	-
Start	3958	End	4591
Name	OJ000102_80.0426.C9.o1.tw	Method	TBLASTX:Wheat
Start	281	End	658
GI	none	Score	93
Exons	281..454, 363..455, 482..655, 504..656, 509..658		

Seq. No.	54179	Seq. ID	OJ000102_80.0426.C9
Gene No.	113670	Strand	-
Start	3958	End	4591
Name	OJ000102_80.0426.C9.o1.tm	Method	TBLASTX:Maize
Start	356	End	952
GI	none	Score	225
Exons	356..427, 474..947, 485..952		

Seq. No.	54179	Seq. ID	OJ000102_80.0426.C9
Gene No.	113670	Strand	-
Start	3958	End	4591
Name	OJ000102_80.0426.C9.o2.gs	Method	GENSCAN
Start	3958	End	4591
GI	none	Score	.59
Exons	3958..4166, 4249..4314, 4510..4591		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113671	Strand	+
Start	180	End	9818
Name	OJ000102_80.0426.C10.o1.gs	Method	GENSCAN
Start	180	End	9818
GI	none	Score	.44
Exons	180..478, 501..512, 555..628, 671..1211, 1345..1562, 1649..2461, 2657..3247, 3497..3617, 4147..4269, 4428..4754, 4881..5198, 5644..6190, 6192..6355, 6621..6874, 7247..7345, 8718..8919, 8975..9414, 9420..9590, 9630..9818		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113671	Strand	+
Start	180	End	9818

Name	OJ000102_80.0426.C10.o1.np	Method	AAT/NAP
Start	5016	End	8182
GI	7488317	Score	518
Exons	5016..5619, 5652..6417, 8127..8182		
GI Descrip.	RNA-directed DNA polymerase homolog F19F24.2 - Arabidopsis thaliana gi|4185148|gb|AAD08951.1| (AC005724) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113672	Strand	+
Start	19452	End	20538
Name	OJ000102_80.0426.C10.o5.gs	Method	GENSCAN
Start	19452	End	20538
GI	none	Score	.59
Exons	19452..19543, 20439..20538		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113673	Strand	-
Start	8796	End	10978
Name	OJ000102_80.0426.C10.o3.np	Method	AAT/NAP
Start	8796	End	10978
GI	7509927	Score	80
Exons	8796..8983, 10918..10978		
GI Descrip.	hypothetical protein Y47D3B.11 - Caenorhabditis elegans gi|5824794|emb|CAB54384.1| (AL031635) Y47D3B.11 [Caenorhabditis elegans]		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113674	Strand	-
Start	10950	End	15883
Name	OJ000102_80.0426.C10.o4.np	Method	AAT/NAP
Start	10950	End	15638
GI	6069646	Score	186
Exons	10950..11166, 15609..15638		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113674	Strand	-
Start	10950	End	15883
Name	OJ000102_80.0426.C10.o2.gs	Method	GENSCAN
Start	11976	End	13820
GI	none	Score	.62
Exons	11976..12080, 12400..12524, 13772..13820		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113674	Strand	-
Start	10950	End	15883
Name	OJ000102_80.0426.C10.o2.gp	Method	AAT/GAP
Start	14867	End	15319
GI	2431247	Score	855
Exons	14867..15319		
GI Descrip.	3201970/gb|AF068333|AF068333 1.0e-20 Oryza sativa hypothetical secretory protein SH27A precursor, mRNA, complete cds		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113674	Strand	-
Start	10950	End	15883
Name	OJ000102_80.0426.C10.o3.gs	Method	GENSCAN
Start	15183	End	15758
GI	none	Score	1
Exons	15183..15314, 15446..15540, 15626..15758		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113674	Strand	-
Start	10950	End	15883
Name	OJ000102_80.0426.C10.o5.np	Method	AAT/NAP
Start	15186	End	15758
GI	7489555	Score	219
Exons	15186..15314, 15446..15513, 15641..15758		
GI Descrip.	probable secretory protein SH27A precursor - rice gi|3201971|gb|AAC19376.1| (AF068333) hypothetical secretory protein SH27A precursor [Oryza sativa]		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113674	Strand	-
Start	10950	End	15883
Name	OJ000102_80.0426.C10.o3.gp	Method	AAT/GAP
Start	15517	End	15883
GI	572083	Score	527
Exons	15517..15540, 15626..15883		
GI Descrip.	3201970/gb|AF068333|AF068333 1.0e-09 Oryza sativa hypothetical secretory protein SH27A precursor, mRNA, complete cds		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113675	Strand	-
Start	18579	End	18813
Name	OJ000102_80.0426.C10.o4.gs	Method	GENSCAN
Start	18579	End	18813
GI	none	Score	.58
Exons	18579..18646, 18759..18813		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113676	Strand	-
Start	19282	End	19743
Name	OJ000102_80.0426.C10.o4.gp	Method	AAT/GAP
Start	19282	End	19743
GI	LIB3433-026-P1-K1-E11	Score	185
Exons	19282..19396, 19707..19743		
GI Descrip.	'5441872/dbj|AP000366.1|AP000366 2.0e-21 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig a)'		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113677	Strand	-
Start	25966	End	26190
Name	OJ000102_80.0426.C10.o2.tw	Method	TBLASTX:Wheat
Start	4038	End	4367
GI	none	Score	171
Exons	4038..4184, 4040..4177, 4146..4361, 4164..4367, 4169..4366		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10

Gene No.	113677	Strand	-
Start	25966	End	26190
Name	OJ000102_80.0426.C10.o4.tm	Method	TBLASTX:Maize
Start	4388	End	4921
GI	none	Score	47
Exons	4388..4429, 4460..4672, 4462..4644, 4748..4921, 4756..4908		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113677	Strand	-
Start	25966	End	26190
Name	OJ000102_80.0426.C10.o1.tw	Method	TBLASTX:Wheat
Start	4610	End	5020
GI	none	Score	349
Exons	4610..5020, 4753..5019		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113677	Strand	-
Start	25966	End	26190
Name	OJ000102_80.0426.C10.o3.tm	Method	TBLASTX:Maize
Start	5027	End	5212
GI	none	Score	210
Exons	5027..5212, 5038..5211		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113677	Strand	-
Start	25966	End	26190
Name	OJ000102_80.0426.C10.o1.tm	Method	TBLASTX:Maize
Start	5297	End	6173
GI	none	Score	256
Exons	5297..5572, 5320..5568, 5571..5630, 5572..5643, 5634..6173, 5651..5917, 5969..6172		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113677	Strand	-
Start	25966	End	26190
Name	OJ000102_80.0426.C10.o4.tw	Method	TBLASTX:Wheat
Start	5345	End	5625
GI	none	Score	271
Exons	5345..5566, 5365..5568, 5575..5625		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113677	Strand	-
Start	25966	End	26190
Name	OJ000102_80.0426.C10.o5.tw	Method	TBLASTX:Wheat
Start	5633	End	6005
GI	none	Score	124
Exons	5633..5779, 5634..5780, 5780..5932, 5781..5933, 5925..6005		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113677	Strand	-
Start	25966	End	26190
Name	OJ000102_80.0426.C10.o1.ts	Method	TBLASTX:Soybean
Start	5859	End	6396
GI	none	Score	57
Exons	5859..5918, 5873..5905, 5988..6176, 5993..6178, 6205..6396, 6225..6383		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113677	Strand	-
Start	25966	End	26190
Name	OJ000102_80.0426.C10.o2.tm	Method	TBLASTX:Maize
Start	6463	End	6935
GI	none	Score	283
Exons	6463..6816, 6464..6832, 6470..6832, 6857..6892, 6879..6935, 6894..6932		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113677	Strand	-
Start	25966	End	26190
Name	OJ000102_80.0426.C10.o3.tw	Method	TBLASTX:Wheat
Start	6665	End	7025
GI	none	Score	145
Exons	6665..6892, 6879..7025		

Seq. No.	54180	Seq. ID	OJ000102_80.0426.C10
Gene No.	113677	Strand	-
Start	25966	End	26190
Name	OJ000102_80.0426.C10.o7.gs	Method	GENSCAN
Start	25966	End	26190
GI	none	Score	.76
Exons	25966..26035, 26105..26190		

Seq. No.	54181	Seq. ID	OJ000102_80.0426.C11
Gene No.	113678	Strand	+
Start	345	End	6232
Name	OJ000102_80.0426.C11.o1.np	Method	AAT/NAP
Start	345	End	1080
GI	6503305	Score	853
Exons	345..654, 748..1080		
GI Descrip.	(AC011713) Contains similarity to gb|U19615 LET 858 gene from Caenorhabditis elegans. ESTs gb|AI995150, gb|H76674 and gb|R84035 come from this gene. [Arabidopsis thaliana]		

Seq. No.	54181	Seq. ID	OJ000102_80.0426.C11
Gene No.	113678	Strand	+
Start	345	End	6232
Name	OJ000102_80.0426.C11.o1.gs	Method	GENSCAN
Start	587	End	6232
GI	none	Score	.52
Exons	587..654, 748..1076, 1428..1571, 2794..3066, 3373..3434, 3706..3818, 4033..4155, 4837..4923, 5199..5231, 5609..5650, 6116..6232		

Seq. No.	54181	Seq. ID	OJ000102_80.0426.C11
Gene No.	113678	Strand	+
Start	345	End	6232
Name	OJ000102_80.0426.C11.o3.np	Method	AAT/NAP
Start	2840	End	5084
GI	6598356	Score	167
Exons	2840..3013, 3435..3546, 3706..3766, 4023..4181, 4653..4923, 5028..5084		
GI Descrip.	(AC002354) putative tetracycline transporter protein [Arabidopsis thaliana]		

Seq. No.	54181	Seq. ID	OJ000102_80.0426.C11
Gene No.	113678	Strand	+
Start	345	End	6232
Name	OJ000102_80.0426.C11.o1.gp	Method	AAT/GAP
Start	4973	End	6105
GI	LIB3434-010-P1-K1-E11	Score	846
Exons	4973..5108, 5199..5231, 5344..5397, 5609..5650, 5770..5848, 5962..6105		
GI Descrip.	'3757529 1.0e-17 (AC005167) tetracycline transporter-like protein [Arabidopsis thaliana]'		

Seq. No.	54181	Seq. ID	OJ000102_80.0426.C11
Gene No.	113679	Strand	+
Start	10949	End	12023
Name	OJ000102_80.0426.C11.o2.gp	Method	AAT/GAP
Start	10949	End	12023
GI	LIB3477-003-P1-K1-E9	Score	103
Exons	10949..10980, 11970..12023		
GI Descrip.	'2498586/sp|Q40638|MPO1_ORYSA 2.0e-24 MAJOR POLLEN ALLERGEN ORY S 1 PRECURSOR (ORY S I) >gi_1173557 (U31771) Ory s 1 [Oryza sativa]'		

Seq. No.	54181	Seq. ID	OJ000102_80.0426.C11
Gene No.	113680	Strand	-
Start	9519	End	12277
Name	OJ000102_80.0426.C11.o1.tc	Method	TBLASTX:Cress
Start	343	End	606
GI	none	Score	458
Exons	343..594, 346..606, 348..605		

Seq. No.	54181	Seq. ID	OJ000102_80.0426.C11
Gene No.	113680	Strand	-
Start	9519	End	12277
Name	OJ000102_80.0426.C11.o1.ts	Method	TBLASTX:Soybean
Start	343	End	1555
GI	none	Score	532
Exons	343..657, 346..654, 348..662, 348..659, 736..960, 745..936, 747..959, 1337..1363, 1372..1440, 1520..1555		

Seq. No.	54181	Seq. ID	OJ000102_80.0426.C11
Gene No.	113680	Strand	-
Start	9519	End	12277
Name	OJ000102_80.0426.C11.o1.tm	Method	TBLASTX:Maize
Start	344	End	1455
GI	none	Score	537
Exons	344..658, 346..654, 348..659, 736..873, 745..861, 747..893, 903..944, 904..945, 1337..1363, 1372..1440, 1375..1455		

Seq. No.	54181	Seq. ID	OJ000102_80.0426.C11
Gene No.	113680	Strand	-
Start	9519	End	12277
Name	OJ000102_80.0426.C11.o2.tc	Method	TBLASTX:Cress
Start	606	End	1440
GI	none	Score	70
Exons	606..659, 607..654, 736..879, 747..878, 1337..1360, 1372..1440		

Seq. No.	54181	Seq. ID	OJ000102_80.0426.C11

Gene No.	113680	Strand	-
Start	9519	End	12277
Name	OJ000102_80.0426.C11.o4.tm	Method	TBLASTX:Maize
Start	2812	End	3019
GI	none	Score	210
Exons	2812..3003, 2831..3016, 2870..3019		

Seq. No.	54181	Seq. ID	OJ000102_80.0426.C11
Gene No.	113680	Strand	-
Start	9519	End	12277
Name	OJ000102_80.0426.C11.o1.tw	Method	TBLASTX:Wheat
Start	2840	End	3548
GI	none	Score	192
Exons	2840..2962, 2843..2974, 2939..3019, 2959..3027, 3434..3544, 3434..3544, 3435..3545, 3435..3548		

Seq. No.	54181	Seq. ID	OJ000102_80.0426.C11
Gene No.	113680	Strand	-
Start	9519	End	12277
Name	OJ000102_80.0426.C11.o3.tm	Method	TBLASTX:Maize
Start	4676	End	5386
GI	none	Score	53
Exons	4676..4753, 4680..4754, 4682..4741, 4692..4784, 4826..4921, 4830..4922, 4831..4929, 5026..5103, 5027..5107, 5058..5108, 5199..5231, 5363..5386		

Seq. No.	54181	Seq. ID	OJ000102_80.0426.C11
Gene No.	113680	Strand	-
Start	9519	End	12277
Name	OJ000102_80.0426.C11.o2.tm	Method	TBLASTX:Maize
Start	5612	End	6319
GI	none	Score	50
Exons	5612..5650, 5614..5655, 5749..5847, 5767..5847, 5768..5851, 5769..5849, 5924..6037, 5940..6032, 5963..6034, 5964..6041, 6158..6226, 6161..6217, 6263..6319		

Seq. No.	54181	Seq. ID	OJ000102_80.0426.C11
Gene No.	113680	Strand	-
Start	9519	End	12277
Name	OJ000102_80.0426.C11.o4.np	Method	AAT/NAP
Start	9519	End	12277
GI	487099	Score	72
Exons	9519..9642, 11659..11845, 12086..12277		
GI Descrip.	NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain 2 - maize chloroplast		

Seq. No.	54182	Seq. ID	OJ000102_80.0426.C12
Gene No.	113681	Strand	+
Start	4309	End	5245
Name	OJ000102_80.0426.C12.o2.gs	Method	GENSCAN
Start	4309	End	5245
GI	none	Score	.93
Exons	4309..4530, 5138..5245		

Seq. No.	54182	Seq. ID	OJ000102_80.0426.C12
Gene No.	113682	Strand	+
Start	5803	End	6382

Name	OJ000102_80.0426.C12.o3.gs	Method	GENSCAN
Start	5803	End	6382
GI	none	Score	.78
Exons	5803..5829, 6281..6382		

Seq. No.	54182	Seq. ID	OJ000102_80.0426.C12
Gene No.	113683	Strand	+
Start	8193	End	9725
Name	OJ000102_80.0426.C12.o1.gp	Method	AAT/GAP
Start	8123	End	8623
GI	91897_1.R1084	Score	964
Exons	8123..8623		
GI Descrip.	'3860263 3.0e-29 (AC005824) putative cytochrome p450 protein [Arabidopsis thaliana]'		

Seq. No.	54182	Seq. ID	OJ000102_80.0426.C12
Gene No.	113683	Strand	+
Start	8193	End	9725
Name	OJ000102_80.0426.C12.o4.gs	Method	GENSCAN
Start	8193	End	9725
GI	none	Score	.46
Exons	8193..9725		

Seq. No.	54182	Seq. ID	OJ000102_80.0426.C12
Gene No.	113683	Strand	+
Start	8193	End	9725
Name	OJ000102_80.0426.C12.o2.np	Method	AAT/NAP
Start	8208	End	9716
GI	3860263	Score	1282
Exons	8208..9716		
GI Descrip.	(AC005824) putative cytochrome P450 [Arabidopsis thaliana]		

Seq. No.	54182	Seq. ID	OJ000102_80.0426.C12
Gene No.	113684	Strand	-
Start	231	End	2062
Name	OJ000102_80.0426.C12.o1.gs	Method	GENSCAN
Start	231	End	2062
GI	none	Score	.41
Exons	231..317, 2057..2062		

Seq. No.	54182	Seq. ID	OJ000102_80.0426.C12
Gene No.	113685	Strand	-
Start	4641	End	8281
Name	OJ000102_80.0426.C12.o1.np	Method	AAT/NAP
Start	4641	End	8281
GI	6721512	Score	219
Exons	4641..4666, 6013..6081, 6193..6229, 6272..6405, 6433..6547, 8157..8281		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	54182	Seq. ID	OJ000102_80.0426.C12
Gene No.	113686	Strand	-
Start	11363	End	12529
Name	OJ000102_80.0426.C12.o2.tm	Method	TBLASTX:Maize
Start	8168	End	8368
GI	none	Score	212
Exons	8168..8368, 8199..8366		

Seq. No.	54182	Seq. ID	OJ000102_80.0426.C12
Gene No.	113686	Strand	-
Start	11363	End	12529
Name	OJ000102_80.0426.C12.o1.ts	Method	TBLASTX:Soybean
Start	8222	End	9703
GI	none	Score	480
Exons	8222..8620, 8223..8690, 8703..9044, 8723..8911, 8987..9034, 9057..9161, 9074..9166, 9228..9458, 9275..9457, 9476..9565, 9477..9569, 9644..9703, 9648..9689		

Seq. No.	54182	Seq. ID	OJ000102_80.0426.C12
Gene No.	113686	Strand	-
Start	11363	End	12529
Name	OJ000102_80.0426.C12.o1.tc	Method	TBLASTX:Cress
Start	8432	End	9575
GI	none	Score	273
Exons	8432..8602, 8433..8855, 8877..8948, 9000..9158, 9333..9479, 9395..9481, 9483..9575		

Seq. No.	54182	Seq. ID	OJ000102_80.0426.C12
Gene No.	113686	Strand	-
Start	11363	End	12529
Name	OJ000102_80.0426.C12.o1.tm	Method	TBLASTX:Maize
Start	8432	End	9569
GI	none	Score	278
Exons	8432..8620, 8433..8855, 8676..8786, 8877..8981, 9000..9149, 9225..9488, 9398..9487, 9494..9565, 9495..9569		

Seq. No.	54182	Seq. ID	OJ000102_80.0426.C12
Gene No.	113686	Strand	-
Start	11363	End	12529
Name	OJ000102_80.0426.C12.o1.tw	Method	TBLASTX:Wheat
Start	8600	End	9008
GI	none	Score	536
Exons	8600..9007, 8601..9008		

Seq. No.	54182	Seq. ID	OJ000102_80.0426.C12
Gene No.	113686	Strand	-
Start	11363	End	12529
Name	OJ000102_80.0426.C12.o2.tw	Method	TBLASTX:Wheat
Start	9051	End	9431
GI	none	Score	139
Exons	9051..9161, 9062..9166, 9228..9431, 9236..9430		

Seq. No.	54182	Seq. ID	OJ000102_80.0426.C12
Gene No.	113686	Strand	-
Start	11363	End	12529
Name	OJ000102_80.0426.C12.o5.gs	Method	GENSCAN
Start	11363	End	12529
GI	none	Score	.51
Exons	11363..11427, 12157..12529		

Seq. No.	54183	Seq. ID	OJ000102_80.0426.C13
Gene No.	113687	Strand	+
Start	89	End	283
Name	OJ000102_80.0426.C13.o1.gs	Method	GENSCAN

Start	89	End	283
GI	none	Score	.91
Exons	89..283		

Seq. No.	54183	Seq. ID	OJ000102_80.0426.C13
Gene No.	113688	Strand	-
Start	2531	End	2681
Name	OJ000102_80.0426.C13.o2.gs	Method	GENSCAN
Start	2531	End	2681
GI	none	Score	.49
Exons	2531..2681		

Seq. No.	54184	Seq. ID	OJ000102_80.0426.C14
Gene No.	113689	Strand	+
Start	931	End	1661
Name	OJ000102_80.0426.C14.o1.gp	Method	AAT/GAP
Start	931	End	1661
GI	15592_1.R1084	Score	1296
Exons	931..1661		
GI Descrip.	'3747050 7.0e-48 (AF093540) ribosomal protein L26 [Zea mays]'		

Seq. No.	54184	Seq. ID	OJ000102_80.0426.C14
Gene No.	113689	Strand	+
Start	931	End	1661
Name	OJ000102_80.0426.C14.o1.tc	Method	TBLASTX:Cress
Start	995	End	1376
GI	none	Score	468
Exons	995..1138, 996..1376, 1223..1312		

Seq. No.	54184	Seq. ID	OJ000102_80.0426.C14
Gene No.	113689	Strand	+
Start	931	End	1661
Name	OJ000102_80.0426.C14.o1.tm	Method	TBLASTX:Maize
Start	995	End	1412
GI	none	Score	601
Exons	995..1138, 996..1412, 1226..1312, 1288..1335		

Seq. No.	54184	Seq. ID	OJ000102_80.0426.C14
Gene No.	113689	Strand	+
Start	931	End	1661
Name	OJ000102_80.0426.C14.o1.ts	Method	TBLASTX:Soybean
Start	995	End	1376
GI	none	Score	503
Exons	995..1138, 996..1376, 1223..1312, 1291..1338		

Seq. No.	54184	Seq. ID	OJ000102_80.0426.C14
Gene No.	113689	Strand	+
Start	931	End	1661
Name	OJ000102_80.0426.C14.o1.np	Method	AAT/NAP
Start	996	End	1358
GI	3747050	Score	589
Exons	996..1358		
GI Descrip.	(AF093540) ribosomal protein L26 [Zea mays]		

Seq. No.	54185	Seq. ID	OJ000102_80.0426.C16
Gene No.	113690	Strand	-
Start	1	End	1740

Name	OJ000102_80.0426.C16.o1.np	Method	AAT/NAP
Start	1	End	1740
GI	7485859	Score	659
Exons	1..24, 211..1740		
GI Descrip.	hypothetical protein F20D10.300 - Arabidopsis thaliana gi|4467124|emb|CAB37558.1| (AL035538) hypothetical protein [Arabidopsis thaliana] gi|7270802|emb|CAB80483.1| (AL161593) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54185	Seq. ID	OJ000102_80.0426.C16
Gene No.	113690	Strand	-
Start	1	End	1740
Name	OJ000102_80.0426.C16.o1.gs	Method	GENSCAN
Start	26	End	1554
GI	none	Score	.83
Exons	26..235, 609..1554		

Seq. No.	54185	Seq. ID	OJ000102_80.0426.C16
Gene No.	113690	Strand	-
Start	1	End	1740
Name	OJ000102_80.0426.C16.o1.tw	Method	TBLASTX:Wheat
Start	718	End	1134
GI	none	Score	70
Exons	718..843, 850..939, 955..1134, 956..1132		

Seq. No.	54185	Seq. ID	OJ000102_80.0426.C16
Gene No.	113690	Strand	-
Start	1	End	1740
Name	OJ000102_80.0426.C16.o1.tm	Method	TBLASTX:Maize
Start	976	End	1353
GI	none	Score	104
Exons	976..1353, 983..1240		

Seq. No.	54185	Seq. ID	OJ000102_80.0426.C16
Gene No.	113690	Strand	-
Start	1	End	1740
Name	OJ000102_80.0426.C16.o1.ts	Method	TBLASTX:Soybean
Start	979	End	1303
GI	none	Score	115
Exons	979..1302, 983..1303		

Seq. No.	54185	Seq. ID	OJ000102_80.0426.C16
Gene No.	113690	Strand	-
Start	1	End	1740
Name	OJ000102_80.0426.C16.o1.tc	Method	TBLASTX:Cress
Start	1030	End	1389
GI	none	Score	202
Exons	1030..1389		

Seq. No.	54186	Seq. ID	OJ000102_80.0426.C17
Gene No.	113691	Strand	-
Start	1	End	2059
Name	OJ000102_80.0426.C17.o1.np	Method	AAT/NAP
Start	1	End	2059
GI	7529711	Score	538
Exons	1..37, 474..566, 696..833, 1007..1094, 1300..1388, 1731..1796, 1988..2059		

GI Descrip.	(AL132969) putative protein [Arabidopsis thaliana]		
Seq. No.	54186	Seq. ID	OJ000102_80.0426.C17
Gene No.	113691	Strand	-
Start	1	End	2059
Name	OJ000102_80.0426.C17.o1.gs	Method	GENSCAN
Start	696	End	1094
GI	none	Score	.41
Exons	696..833, 1007..1094		
Seq. No.	54187	Seq. ID	OJ000102_80.0426.C18
Gene No.	113692	Strand	+
Start	4895	End	5714
Name	OJ000102_80.0426.C18.o2.gs	Method	GENSCAN
Start	4895	End	5714
GI	none	Score	.63
Exons	4895..4949, 5014..5056, 5132..5255, 5388..5714		
Seq. No.	54187	Seq. ID	OJ000102_80.0426.C18
Gene No.	113693	Strand	+
Start	8278	End	9637
Name	OJ000102_80.0426.C18.o3.gs	Method	GENSCAN
Start	8278	End	9552
GI	none	Score	1
Exons	8278..8611, 8828..9552		
Seq. No.	54187	Seq. ID	OJ000102_80.0426.C18
Gene No.	113693	Strand	+
Start	8278	End	9637
Name	OJ000102_80.0426.C18.o4.np	Method	AAT/NAP
Start	8281	End	9637
GI	4514637	Score	1151
Exons	8281..8394, 8461..8611, 8828..9637		
GI Descrip.	(AB021176) root cap protein 2 [Zea mays]		
Seq. No.	54187	Seq. ID	OJ000102_80.0426.C18
Gene No.	113694	Strand	-
Start	1072	End	1275
Name	OJ000102_80.0426.C18.o1.gs	Method	GENSCAN
Start	1072	End	1275
GI	none	Score	.86
Exons	1072..1275		
Seq. No.	54187	Seq. ID	OJ000102_80.0426.C18
Gene No.	113694	Strand	-
Start	1072	End	1275
Name	OJ000102_80.0426.C18.o1.np	Method	AAT/NAP
Start	1075	End	1167
GI	7486211	Score	66
Exons	1075..1167		
GI Descrip.	hypothetical protein F26P21.170 - Arabidopsis thaliana gi|3688186|emb|CAA21214.1| (AL031804) putative protein [Arabidopsis thaliana] gi|7270252|emb|CAB80022.1| (AL161582) putative protein [Arabidopsis thaliana]		
Seq. No.	54187	Seq. ID	OJ000102_80.0426.C18
Gene No.	113695	Strand	-

Start	2381	End	7475
Name	OJ000102_80.0426.C18.o2.np	Method	AAT/NAP
Start	2381	End	7275
GI	7452431	Score	155
Exons	2381..2426, 5248..5621, 7227..7275		
GI Descrip.	hypothetical protein F16G20.140 - Arabidopsis thaliana gi|3451069|emb|CAA20465.1| (AL031326) hypothetical protein [Arabidopsis thaliana] gi|7269192|emb|CAB79299.1| (AL161559) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54187	Seq. ID	OJ000102_80.0426.C18
Gene No.	113695	Strand	-
Start	2381	End	7475
Name	OJ000102_80.0426.C18.o3.np	Method	AAT/NAP
Start	5801	End	7475
GI	114657	Score	108
Exons	5801..5839, 7216..7475		
GI Descrip.	ATP SYNTHASE A CHAIN PRECURSOR (SUBUNIT IV) gi|67926|pir||LWRZ6 H+-transporting ATP synthase (EC 3.6.1.34) chain a - rice chloroplast gi|11975|emb|CAA33990| (X15901) ATPase a subunit [Oryza sativa] gi|226693|prf||1603356U ATPase a [Oryza sativa]		

Seq. No.	54187	Seq. ID	OJ000102_80.0426.C18
Gene No.	113696	Strand	
Start	8845	End	9522
Name	OJ000102_80.0426.C18.o1.tc	Method	TBLASTX:Cress
Start	8845	End	9441
GI	none	Score	62
Exons	8845..8880, 8887..8904, 8992..9033, 9043..9168, 9184..9441, 9249..9386		

Seq. No.	54187	Seq. ID	OJ000102_80.0426.C18
Gene No.	113696	Strand	
Start	8845	End	9522
Name	OJ000102_80.0426.C18.o2.tm	Method	TBLASTX:Maize
Start	8860	End	8973
GI	none	Score	184
Exons	8860..8973, 8868..8972		

Seq. No.	54187	Seq. ID	OJ000102_80.0426.C18
Gene No.	113696	Strand	
Start	8845	End	9522
Name	OJ000102_80.0426.C18.o1.ts	Method	TBLASTX:Soybean
Start	9184	End	9414
GI	none	Score	189
Exons	9184..9414		

Seq. No.	54187	Seq. ID	OJ000102_80.0426.C18
Gene No.	113696	Strand	
Start	8845	End	9522
Name	OJ000102_80.0426.C18.o1.tm	Method	TBLASTX:Maize
Start	9322	End	9522
GI	none	Score	267
Exons	9322..9522, 9324..9506		

Seq. No.	54188	Seq. ID	OJ000102_80.0426.C19
Gene No.	113697	Strand	-

Start	460	End	1227
Name	OJ000102_80.0426.C19.o1.np	Method	AAT/NAP
Start	460	End	1227
GI	7529711	Score	307
Exons	460..886, 1002..1227		
GI Descrip.	(AL132969) putative protein [Arabidopsis thaliana]		

Seq. No.	54188	Seq. ID	OJ000102_80.0426.C19
Gene No.	113697	Strand	-
Start	460	End	1227
Name	OJ000102_80.0426.C19.o1.ts	Method	TBLASTX:Soybean
Start	467	End	727
GI	none	Score	114
Exons	467..673, 511..684, 512..697, 685..726, 692..727		

Seq. No.	54188	Seq. ID	OJ000102_80.0426.C19
Gene No.	113697	Strand	-
Start	460	End	1227
Name	OJ000102_80.0426.C19.o1.tm	Method	TBLASTX:Maize
Start	503	End	1124
GI	none	Score	142
Exons	503..637, 511..747, 512..619, 669..752, 689..739, 775..942, 827..937, 1021..1122, 1023..1124		

Seq. No.	54188	Seq. ID	OJ000102_80.0426.C19
Gene No.	113697	Strand	-
Start	460	End	1227
Name	OJ000102_80.0426.C19.o1.tw	Method	TBLASTX:Wheat
Start	523	End	948
GI	none	Score	166
Exons	523..666, 523..681, 564..686, 651..749, 675..746, 685..765, 685..765, 692..796, 756..938, 760..948, 769..942		

Seq. No.	54189	Seq. ID	OJ000102_74.0426.C1
Gene No.	113698	Strand	-
Start	183	End	1323
Name	OJ000102_74.0426.C1.o1.gs	Method	GENSCAN
Start	183	End	1323
GI	none	Score	.73
Exons	183..504, 1268..1323		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113699	Strand	+
Start	13915	End	14326
Name	OJ000102_74.0426.C2.o3.gs	Method	GENSCAN
Start	13915	End	14326
GI	none	Score	.46
Exons	13915..14075, 14266..14326		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113700	Strand	+
Start	15809	End	16041
Name	OJ000102_74.0426.C2.o3.gp	Method	AAT/GAP
Start	15809	End	16041
GI	427535	Score	384
Exons	15809..16041		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113701	Strand	-
Start	764	End	1941
Name	OJ000102_74.0426.C2.o1.gs	Method	GENSCAN
Start	764	End	1941
GI	none	Score	.94
Exons	764..895, 1570..1941		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o1.gp	Method	AAT/GAP
Start	2851	End	3540
GI	73393_1.R1084	Score	1025
Exons	2851..3319, 3462..3540		
GI Descrip.	'2443329/dbj|BAA22374| 1.0e-09 (D86122) Mei2-like protein [Arabidopsis thaliana]'		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o1.np	Method	AAT/NAP
Start	2873	End	7821
GI	7485526	Score	1131
Exons	2873..3056, 3392..3641, 3843..3911, 3998..4082, 4161..4414, 4484..4651, 4702..5034, 5132..5250, 6569..6723, 6852..6968, 7408..7821		
GI Descrip.	hypothetical protein F15J5.90 - Arabidopsis thaliana gi|5816998|emb|CAB53653.1| (AL110123) putative protein [Arabidopsis thaliana] gi|7268605|emb|CAB78814.1| (AL161548) putative protein [Arabidopsis thaliana]		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o2.gs	Method	GENSCAN
Start	3191	End	12349
GI	none	Score	.78
Exons	3191..3357, 3392..3404, 3462..3641, 3843..3911, 3998..4082, 4161..4590, 4870..5067, 5156..5250, 6569..6720, 6852..6968, 7051..7209, 7408..7874, 8625..8777, 8875..8931, 10109..10194, 10417..10723, 10747..10832, 12162..12349		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o2.ts	Method	TBLASTX:Soybean
Start	3429	End	4601
GI	none	Score	77
Exons	3429..3644, 3455..3568, 3469..3642, 3843..3914, 3859..3912, 3998..4081, 3998..4114, 4139..4474, 4158..4244, 4323..4484, 4512..4601, 4517..4600		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o4.tm	Method	TBLASTX:Maize

Start	3448	End	4190
GI	none	Score	212
Exons	3448..3636, 3453..3644, 3462..3644, 3843..3914, 3847..3912, 3998..4081, 3998..4114, 4139..4189, 4158..4190		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o1.tc	Method	TBLASTX:Cress
Start	3454	End	7854
GI	none	Score	124
Exons	3454..3573, 3459..3647, 3462..3644, 3469..3663, 3610..3648, 3843..3914, 3850..3912, 3998..4081, 3998..4114, 4000..4083, 4139..4345, 4157..4204, 4158..4244, 6574..6723, 6578..6685, 6846..6968, 6853..6978, 7045..7215, 7051..7221, 7051..7212, 7408..7566, 7409..7516, 7594..7854		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o2.np	Method	AAT/NAP
Start	3516	End	16903
GI	6728878	Score	324
Exons	3516..3641, 3843..3911, 3998..4097, 4130..4385, 6546..6720, 6852..6965, 6994..7209, 7408..7482, 10874..10927, 15934..15975, 16772..16903		
GI Descrip.	(AC008113) F12A21.8 [Arabidopsis thaliana]		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o3.tm	Method	TBLASTX:Maize
Start	4190	End	4414
GI	none	Score	188
Exons	4190..4414, 4191..4409		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o2.gp	Method	AAT/GAP
Start	4530	End	4977
GI	none	Score	780
Exons	4530..4977		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o2.tm	Method	TBLASTX:Maize
Start	4655	End	4900
GI	none	Score	290
Exons	4655..4900, 4665..4898		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o1.ts	Method	TBLASTX:Soybean
Start	4979	End	7153

GI	none	Score	170
Exons	4979..5068, 5160..5252, 6566..6721, 6569..6721, 6571..6723, 6846..6968, 6847..6978, 7049..7153, 7051..7152		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o1.tm	Method	TBLASTX:Maize
Start	5024	End	7218
GI	none	Score	61
Exons	5024..5068, 5024..5065, 5026..5070, 5155..5250, 5157..5249, 5157..5252, 6566..6721, 6569..6721, 6571..6723, 6846..6968, 6847..6969, 6853..6969, 7054..7218		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o6.tm	Method	TBLASTX:Maize
Start	7394	End	7537
GI	none	Score	155
Exons	7394..7537, 7408..7536, 7442..7537		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o4.gs	Method	GENSCAN
Start	14970	End	18784
GI	none	Score	.63
Exons	14970..15014, 15919..16589, 17074..17177, 18088..18416, 18554..18784		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o3.np	Method	AAT/NAP
Start	15883	End	16480
GI	3157923	Score	233
Exons	15883..16480		
GI Descrip.	(AC002131) F12F1.7 [Arabidopsis thaliana]		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o4.gp	Method	AAT/GAP
Start	17739	End	18318
GI	none	Score	1064
Exons	17739..18318		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o4.np	Method	AAT/NAP
Start	18048	End	18851
GI	6002712	Score	336
Exons	18048..18416, 18500..18851		
GI Descrip.	(AF133053) S-adenosyl-L-methionine:salicylic acid carboxyl methyltransferase [Clarkia breweri]		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o5.tm	Method	TBLASTX:Maize
Start	18060	End	18414
GI	none	Score	106
Exons	18060..18236, 18067..18228, 18249..18410, 18281..18307, 18282..18410, 18313..18414		

Seq. No.	54190	Seq. ID	OJ000102_74.0426.C2
Gene No.	113702	Strand	-
Start	2851	End	18851
Name	OJ000102_74.0426.C2.o3.ts	Method	TBLASTX:Soybean
Start	18348	End	18737
GI	none	Score	130
Exons	18348..18419, 18500..18736, 18582..18737		

Seq. No.	54191	Seq. ID	OJ000102_74.0426.C3
Gene No.	113703	Strand	-
Start	1	End	1010
Name	OJ000102_74.0426.C3.o1.np	Method	AAT/NAP
Start	1	End	907
GI	4006915	Score	223
Exons	1..506, 824..907		
GI Descrip.	(Z99708) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54191	Seq. ID	OJ000102_74.0426.C3
Gene No.	113703	Strand	-
Start	1	End	1010
Name	OJ000102_74.0426.C3.o1.gs	Method	GENSCAN
Start	98	End	898
GI	none	Score	.93
Exons	98..529, 824..898		

Seq. No.	54191	Seq. ID	OJ000102_74.0426.C3
Gene No.	113703	Strand	-
Start	1	End	1010
Name	OJ000102_74.0426.C3.o1.gp	Method	AAT/GAP
Start	297	End	1010
GI	3761509	Score	780
Exons	297..529, 824..1010		

Seq. No.	54191	Seq. ID	OJ000102_74.0426.C3
Gene No.	113704	Strand	-
Start	4293	End	5745
Name	OJ000102_74.0426.C3.o1.tm	Method	TBLASTX:Maize
Start	98	End	898
GI	none	Score	90
Exons	98..205, 102..206, 225..305, 236..310, 369..434, 389..430, 824..898		

Seq. No.	54191	Seq. ID	OJ000102_74.0426.C3
Gene No.	113704	Strand	-
Start	4293	End	5745
Name	OJ000102_74.0426.C3.o1.ts	Method	TBLASTX:Soybean
Start	143	End	898

GI	none	Score	87
Exons	143..313, 153..302, 333..434,	389..430,	824..898

Seq. No.	54191	Seq. ID	OJ000102_74.0426.C3
Gene No.	113704	Strand	-
Start	4293	End	5745
Name	OJ000102_74.0426.C3.o3.gs	Method	GENSCAN
Start	4293	End	5745
GI	none	Score	.76
Exons	4293..4348, 5601..5745		

Seq. No.	54191	Seq. ID	OJ000102_74.0426.C3
Gene No.	113704	Strand	-
Start	4293	End	5745
Name	OJ000102_74.0426.C3.o2.gp	Method	AAT/GAP
Start	4983	End	5449
GI	273_1.R1084	Score	352
Exons	4983..5022, 5195..5449		
GI Descrip.	'417260/sp|Q03200|LRP_ORYSA 8.0e-41 LIGHT REGULATED PROTEIN PRECURSOR >gi_422003_pir__S33632 lir1 protein - rice >gi_20263_emb_CAA48706_ (X68807) light-regulated gene [Oryza sativa]'		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113705	Strand	+
Start	1	End	3574
Name	OJ000102_74.0426.C4.o1.np	Method	AAT/NAP
Start	1	End	802
GI	5091511	Score	125
Exons	1..42, 534..802		
GI Descrip.	(AB023482) Similar to Arabidopsis thaliana RING-H2 finger protein RHX1a mRNA, partial cds.(AF079184) [Oryza sativa]		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113705	Strand	+
Start	1	End	3574
Name	OJ000102_74.0426.C4.o1.gs	Method	GENSCAN
Start	428	End	3574
GI	none	Score	.6
Exons	428..808, 2887..3095, 3352..3574		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113706	Strand	+
Start	7418	End	7755
Name	OJ000102_74.0426.C4.o1.gp	Method	AAT/GAP
Start	7418	End	7755
GI	none	Score	485
Exons	7418..7755		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113707	Strand	-
Start	6050	End	14539
Name	OJ000102_74.0426.C4.o2.gs	Method	GENSCAN
Start	6050	End	14539
GI	none	Score	.72
Exons	6050..6321, 7843..8107, 8317..8408, 8959..9158, 9232..9390, 9567..9778, 10057..10173, 10253..10321, 10843..11014,		

11127..11382, 11480..11663, 11772..11882, 12063..12117,
13031..13172, 13208..13390, 13604..13755, 14127..14252,
14290..14314, 14476..14539

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113707	Strand	-
Start	6050	End	14539
Name	OJ000102_74.0426.C4.o2.np	Method	AAT/NAP
Start	8037	End	10962
GI	7489668	Score	1801
Exons	8037..8107, 8317..8408, 8526..8622, 8702..8868, 8959..9158, 9232..9390, 9567..9778, 10057..10173, 10253..10321, 10417..10455, 10843..10962		
GI Descrip.	fimbrin/plastin-like protein - wheat (fragment) gi|1575595|gb|AAC49813.1| (U67717) fimbrin/plastin-like [Triticum aestivum]		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113707	Strand	-
Start	6050	End	14539
Name	OJ000102_74.0426.C4.o2.gp	Method	AAT/GAP
Start	9365	End	10906
GI	uC-osflcyp120c07b1	Score	946
Exons	9365..9390, 9567..9778, 10057..10173, 10253..10321, 10417..10455, 10843..10906		
GI Descrip.	'1575595 9.0e-89 (U67717) fimbrin/plastin-like [Triticum aestivum]'		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113708	Strand	-
Start	15464	End	18550
Name	OJ000102_74.0426.C4.o1.tm	Method	TBLASTX:Maize
Start	7648	End	10282
GI	none	Score	49
Exons	7648..7728, 7649..7684, 7799..8008, 7832..7930, 7993..8109, 8005..8073, 8048..8116, 8312..8407, 8313..8408, 8314..8409, 8314..8409, 8530..8625, 8531..8623, 8700..8867, 8702..8869, 8702..8869, 8955..9122, 8960..9160, 8960..9157, 8961..9161, 9213..9395, 9219..9395, 9226..9396, 9239..9397, 9564..9785, 9566..9796, 10055..10180, 10055..10174, 10057..10176, 10252..10281, 10253..10282		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113708	Strand	-
Start	15464	End	18550
Name	OJ000102_74.0426.C4.o1.tc	Method	TBLASTX:Cress
Start	7871	End	11871
GI	none	Score	69
Exons	7871..7930, 8048..8116, 8055..8108, 8314..8409, 8315..8389, 8349..8411, 8530..8625, 8531..8623, 8700..8792, 8702..8866, 8813..8860, 8957..9157, 8958..9128, 8958..9158, 9219..9335, 9229..9336, 9563..9718, 9565..9717, 9566..9796, 9573..9779, 10043..10180, 10057..10191, 10256..10324, 10284..10322, 10408..10458, 10843..11022, 10847..11014, 11118..11255, 11129..11305, 11129..11272, 11772..11861, 11773..11871		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4

Gene No.	113708	Strand	-
Start	15464	End	18550
Name	OJ000102_74.0426.C4.o3.ts	Method	TBLASTX:Soybean
Start	8048	End	8629
GI	none	Score	72
Exons	8048..8116, 8312..8389, 8314..8412, 8317..8409, 8529..8624, 8530..8625, 8531..8623, 8534..8629		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113708	Strand	-
Start	15464	End	18550
Name	OJ000102_74.0426.C4.o1.ts	Method	TBLASTX:Soybean
Start	8686	End	9275
GI	none	Score	106
Exons	8686..8781, 8700..8792, 8700..8798, 8701..8793, 8702..8836, 8702..8866, 8789..8869, 8792..8869, 8830..8874, 8960..9157, 8967..9128, 8968..9171, 8986..9159, 9219..9275, 9226..9267		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113708	Strand	-
Start	15464	End	18550
Name	OJ000102_74.0426.C4.o2.ts	Method	TBLASTX:Soybean
Start	9276	End	11023
GI	none	Score	68
Exons	9276..9335, 9277..9336, 9333..9395, 9538..9792, 9566..9781, 9566..9796, 9576..9785, 10055..10180, 10057..10176, 10238..10324, 10253..10324, 10408..10458, 10418..10456, 10843..11016, 10844..11023		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113708	Strand	-
Start	15464	End	18550
Name	OJ000102_74.0426.C4.o4.tm	Method	TBLASTX:Maize
Start	10921	End	11312
GI	none	Score	64
Exons	10921..11013, 10921..11022, 10925..11014, 11112..11312, 11129..11272		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113708	Strand	-
Start	15464	End	18550
Name	OJ000102_74.0426.C4.o3.tm	Method	TBLASTX:Maize
Start	11481	End	11931
GI	none	Score	97
Exons	11481..11636, 11488..11637, 11620..11664, 11637..11666, 11772..11861, 11773..11931		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113708	Strand	-
Start	15464	End	18550
Name	OJ000102_74.0426.C4.o2.tm	Method	TBLASTX:Maize
Start	15449	End	17122
GI	none	Score	105
Exons	15449..15547, 15450..15545, 15460..15546, 15467..15547, 15633..15716, 15638..15778, 15644..15778, 15648..15782, 15918..15980, 15918..16136, 15919..16137, 17084..17122		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113708	Strand	-
Start	15464	End	18550
Name	OJ000102_74.0426.C4.o3.gs	Method	GENSCAN
Start	15464	End	18550
GI	none	Score	.81
Exons	15464..15544, 15643..15767, 15917..16135, 17082..17148, 17256..17491, 17900..18067, 18252..18390, 18475..18550		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113708	Strand	-
Start	15464	End	18550
Name	OJ000102_74.0426.C4.o2.tc	Method	TBLASTX:Cress
Start	15470	End	15769
GI	none	Score	86
Exons	15470..15547, 15471..15545, 15638..15769, 15643..15768		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113708	Strand	-
Start	15464	End	18550
Name	OJ000102_74.0426.C4.o3.np	Method	AAT/NAP
Start	15470	End	17507
GI	6648200	Score	646
Exons	15470..15544, 15643..15767, 15917..16135, 17082..17148, 17256..17507		
GI Descrip.	(AC013483) putative RHO GDP-dissociation inhibitor 1 [Arabidopsis thaliana]		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113708	Strand	-
Start	15464	End	18550
Name	OJ000102_74.0426.C4.o3.tc	Method	TBLASTX:Cress
Start	15918	End	17306
GI	none	Score	77
Exons	15918..16019, 15919..16002, 16032..16136, 16036..16155, 17083..17151, 17084..17149, 17256..17306		

Seq. No.	54192	Seq. ID	OJ000102_74.0426.C4
Gene No.	113708	Strand	-
Start	15464	End	18550
Name	OJ000102_74.0426.C4.o3.gp	Method	AAT/GAP
Start	17418	End	17799
GI	3061148	Score	698
Exons	17418..17799		

Seq. No.	54193	Seq. ID	OJ000102_74.0426.C7
Gene No.	113709	Strand	+
Start	1	End	5739
Name	OJ000102_74.0426.C7.o1.np	Method	AAT/NAP
Start	1	End	2548
GI	3953471	Score	822
Exons	1..43, 1301..1392, 1475..1580, 1922..2008, 2138..2548		
GI Descrip.	(AC002328) F22O2.16 [Arabidopsis thaliana]		

Seq. No.	54193	Seq. ID	OJ000102_74.0426.C7
Gene No.	113709	Strand	+
Start	1	End	5739

Name	OJ000102_74.0426.C7.o1.gs	Method	GENSCAN
Start	422	End	5739
GI	none	Score	.86
Exons	422..673, 1301..1392, 1475..1580, 1922..2008, 2138..2471, 2485..2552, 3380..3793, 4280..4646, 5254..5358, 5540..5739		

Seq. No.	54193	Seq. ID	OJ000102_74.0426.C7
Gene No.	113709	Strand	+
Start	1	End	5739
Name	OJ000102_74.0426.C7.o1.gp	Method	AAT/GAP
Start	1296	End	1527
GI	4968575	Score	235
Exons	1296..1392, 1475..1527		
GI Descrip.	3953471 3.0e-29 (AC002328) F22O2.16 [Arabidopsis thaliana]		

Seq. No.	54193	Seq. ID	OJ000102_74.0426.C7
Gene No.	113709	Strand	+
Start	1	End	5739
Name	OJ000102_74.0426.C7.o2.gp	Method	AAT/GAP
Start	1519	End	2237
GI	2797334	Score	422
Exons	1519..1580, 1922..2008, 2138..2237		
GI Descrip.	3953471 2.0e-28 (AC002328) F22O2.16 [Arabidopsis thaliana]		

Seq. No.	54193	Seq. ID	OJ000102_74.0426.C7
Gene No.	113709	Strand	+
Start	1	End	5739
Name	OJ000102_74.0426.C7.o2.np	Method	AAT/NAP
Start	3572	End	4501
GI	4100646	Score	237
Exons	3572..3793, 4280..4501		
GI Descrip.	(AF001948) putative ubiquitin conjugating enzyme [Pinus resinosa]		

Seq. No.	54193	Seq. ID	OJ000102_74.0426.C7
Gene No.	113710	Strand	-
Start	6595	End	6843
Name	OJ000102_74.0426.C7.o3.gp	Method	AAT/GAP
Start	6595	End	6843
GI	2310968	Score	397
Exons	6595..6843		

Seq. No.	54193	Seq. ID	OJ000102_74.0426.C7
Gene No.	113711	Strand	-
Start	9486	End	9878
Name	OJ000102_74.0426.C7.o1.tm	Method	TBLASTX:Maize
Start	1298	End	2718
GI	none	Score	153
Exons	1298..1390, 1300..1392, 1466..1579, 1473..1580, 1473..1595, 1474..1581, 1916..2008, 1930..2031, 1930..2007, 1932..2012, 2129..2554, 2130..2555, 2135..2545, 2604..2633, 2664..2717, 2665..2709, 2665..2718		

Seq. No.	54193	Seq. ID	OJ000102_74.0426.C7
Gene No.	113711	Strand	-
Start	9486	End	9878
Name	OJ000102_74.0426.C7.o2.ts	Method	TBLASTX:Soybean

Start	1298	End	2008
GI	none	Score	117
Exons	1298..1384, 1306..1377, 1469..1579, 1470..1580, 1474..1581, 1916..2008, 1924..2007		

Seq. No.	54193	Seq. ID	OJ000102_74.0426.C7
Gene No.	113711	Strand	-
Start	9486	End	9878
Name	OJ000102_74.0426.C7.o2.tc	Method	TBLASTX:Cress
Start	1298	End	2017
GI	none	Score	124
Exons	1298..1384, 1298..1390, 1300..1392, 1466..1579, 1470..1580, 1470..1595, 1472..1591, 1886..2017, 1895..2008, 1933..2013		

Seq. No.	54193	Seq. ID	OJ000102_74.0426.C7
Gene No.	113711	Strand	-
Start	9486	End	9878
Name	OJ000102_74.0426.C7.o2.tw	Method	TBLASTX:Wheat
Start	1536	End	2299
GI	none	Score	67
Exons	1536..1595, 1542..1580, 1916..2008, 1921..2031, 1924..2007, 2135..2299, 2137..2298		

Seq. No.	54193	Seq. ID	OJ000102_74.0426.C7
Gene No.	113711	Strand	-
Start	9486	End	9878
Name	OJ000102_74.0426.C7.o1.tc	Method	TBLASTX:Cress
Start	2165	End	2524
GI	none	Score	142
Exons	2165..2251, 2170..2301, 2251..2370, 2252..2524, 2277..2510, 2425..2517		

Seq. No.	54193	Seq. ID	OJ000102_74.0426.C7
Gene No.	113711	Strand	-
Start	9486	End	9878
Name	OJ000102_74.0426.C7.o1.ts	Method	TBLASTX:Soybean
Start	2183	End	2545
GI	none	Score	562
Exons	2183..2545, 2183..2539, 2428..2544		

Seq. No.	54193	Seq. ID	OJ000102_74.0426.C7
Gene No.	113711	Strand	-
Start	9486	End	9878
Name	OJ000102_74.0426.C7.o1.tw	Method	TBLASTX:Wheat
Start	2300	End	2558
GI	none	Score	392
Exons	2300..2554, 2302..2553, 2304..2558		

Seq. No.	54193	Seq. ID	OJ000102_74.0426.C7
Gene No.	113711	Strand	-
Start	9486	End	9878
Name	OJ000102_74.0426.C7.o3.tw	Method	TBLASTX:Wheat
Start	3563	End	3745
GI	none	Score	241
Exons	3563..3679, 3575..3745		

Seq. No.	54193	Seq. ID	OJ000102_74.0426.C7

Gene No.	113711	Strand	-
Start	9486	End	9878
Name	OJ000102_74.0426.C7.o4.gp	Method	AAT/GAP
Start	9486	End	9878
GI	2310968	Score	671
Exons	9486..9878		

Seq. No.	54194	Seq. ID	OJ000102_74.0426.C8
Gene No.	113712	Strand	+
Start	65	End	1581
Name	OJ000102_74.0426.C8.o1.gs	Method	GENSCAN
Start	65	End	1419
GI	none	Score	.47
Exons	65..110, 604..1419		

Seq. No.	54194	Seq. ID	OJ000102_74.0426.C8
Gene No.	113712	Strand	+
Start	65	End	1581
Name	OJ000102_74.0426.C8.o1.np	Method	AAT/NAP
Start	1302	End	1581
GI	6175165	Score	100
Exons	1302..1581		
GI Descrip.	(AC011437) Mutator-like transposase [Arabidopsis thaliana]		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113713	Strand	+
Start	1	End	8606
Name	OJ000102_74.0426.C9.o1.np	Method	AAT/NAP
Start	1	End	2797
GI	7486726	Score	529
Exons	1..381, 458..1390, 2608..2797		
GI Descrip.	hypothetical protein F9D12.2 - Arabidopsis thaliana gi|3319345|gb|AAC26234.1| (AF077407) contains similarity to maize transposon MuDR (GB:M76978) [Arabidopsis thaliana]		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113713	Strand	+
Start	1	End	8606
Name	OJ000102_74.0426.C9.o1.gs	Method	GENSCAN
Start	269	End	2087
GI	none	Score	.68
Exons	269..381, 458..637, 1980..2087		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113713	Strand	+
Start	1	End	8606
Name	OJ000102_74.0426.C9.o2.gs	Method	GENSCAN
Start	2521	End	4080
GI	none	Score	.52
Exons	2521..2841, 2896..3131, 3218..3329, 4033..4080		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113713	Strand	+
Start	1	End	8606
Name	OJ000102_74.0426.C9.o2.np	Method	AAT/NAP
Start	2623	End	6020
GI	464979	Score	353

Exons	2623..2841, 5796..6020
GI Descrip.	UBIQUITIN-CONJUGATING ENZYME E2-17 KD (UBIQUITIN-PROTEIN LIGASE) (UBIQUITIN CARRIER PROTEIN) gi|3878673|emb|CAA92745.1| (Z68337) similar to ubiquitin-conjugating enzyme E2-17 KD; cDNA EST EMBL:D70429 comes from this gene; cDNA EST CEMSE48F comes from this gene; cDNA EST EMBL:T00827 comes from this gene; cDNA EST EMBL:T01271 comes from this gen...

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113713	Strand	+
Start	1	End	8606
Name	OJ000102_74.0426.C9.o3.gs	Method	GENSCAN
Start	5401	End	8606
GI	none	Score	.53
Exons	5401..5682, 5796..6213, 7598..7834, 8368..8606		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113714	Strand	-
Start	9971	End	13061
Name	OJ000102_74.0426.C9.o4.tm	Method	TBLASTX:Maize
Start	500	End	1192
GI	none	Score	47
Exons	500..535, 587..931, 998..1069, 1097..1192		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113714	Strand	-
Start	9971	End	13061
Name	OJ000102_74.0426.C9.o3.ts	Method	TBLASTX:Soybean
Start	743	End	1357
GI	none	Score	202
Exons	743..1186, 1280..1357		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113714	Strand	-
Start	9971	End	13061
Name	OJ000102_74.0426.C9.o4.tc	Method	TBLASTX:Cress
Start	947	End	1288
GI	none	Score	156
Exons	947..1192, 1042..1173, 1208..1288		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113714	Strand	-
Start	9971	End	13061
Name	OJ000102_74.0426.C9.o1.tw	Method	TBLASTX:Wheat
Start	2626	End	5685
GI	none	Score	309
Exons	2626..2844, 2670..2738, 2778..2846, 2948..2977, 5466..5627, 5488..5685		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113714	Strand	-
Start	9971	End	13061
Name	OJ000102_74.0426.C9.o2.ts	Method	TBLASTX:Soybean
Start	2626	End	6017
GI	none	Score	224
Exons	2626..2844, 2948..3016, 5460..5621, 5488..5685, 5793..5933, 5795..5932, 5994..6017		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113714	Strand	-
Start	9971	End	13061
Name	OJ000102_74.0426.C9.o2.tc	Method	TBLASTX:Cress
Start	2710	End	6017
GI	none	Score	163
Exons	2710..2844, 2948..3016, 5466..5537, 5548..5685, 5550..5621, 5793..6017, 5795..5932		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113714	Strand	-
Start	9971	End	13061
Name	OJ000102_74.0426.C9.o3.tm	Method	TBLASTX:Maize
Start	2710	End	6017
GI	none	Score	150
Exons	2710..2844, 2948..3016, 5484..5621, 5548..5685, 5793..6017, 5795..5932		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113714	Strand	-
Start	9971	End	13061
Name	OJ000102_74.0426.C9.o1.gp	Method	AAT/GAP
Start	9412	End	10124
GI	none	Score	1328
Exons	9412..10124		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113714	Strand	-
Start	9971	End	13061
Name	OJ000102_74.0426.C9.o4.gs	Method	GENSCAN
Start	9971	End	13061
GI	none	Score	.96
Exons	9971..11247, 12872..13061		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113714	Strand	-
Start	9971	End	13061
Name	OJ000102_74.0426.C9.o2.tm	Method	TBLASTX:Maize
Start	9972	End	10229
GI	none	Score	307
Exons	9972..10229, 9974..10228, 10038..10229		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113714	Strand	-
Start	9971	End	13061
Name	OJ000102_74.0426.C9.o3.np	Method	AAT/NAP
Start	9974	End	12432
GI	7489168	Score	699
Exons	9974..11154, 12408..12432		
GI Descrip.	nucleoid DNA-binding protein cnd41, chloroplast - common tobacco gi|2541876|dbj|BAA22813.1| (D26015) CND41, chloroplast nucleoid DNA binding protein [Nicotiana tabacum]		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113714	Strand	-
Start	9971	End	13061

Name	OJ000102_74.0426.C9.o3.tc	Method	TBLASTX:Cress
Start	9974	End	10339
GI	none	Score	68
Exons	9974..10069, 9975..10076, 10079..10189, 10208..10339, 10209..10334		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113714	Strand	-
Start	9971	End	13061
Name	OJ000102_74.0426.C9.o1.ts	Method	TBLASTX:Soybean
Start	9975	End	11024
GI	none	Score	68
Exons	9975..10076, 9977..10060, 10079..10186, 10115..10162, 10208..10456, 10212..10400, 10514..10654, 10515..10643, 10517..10654, 10658..10771, 10665..10724, 10751..11023, 10869..11024		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113714	Strand	-
Start	9971	End	13061
Name	OJ000102_74.0426.C9.o2.gp	Method	AAT/GAP
Start	10433	End	10765
GI	61812_1.R1084	Score	653
Exons	10433..10765		
GI Descrip.	'2541876/dbj|BAA22813| 7.0e-14 (D26015) CND41, chloroplast nucleoid DNA binding protein [Nicotiana tabacum]'		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113714	Strand	-
Start	9971	End	13061
Name	OJ000102_74.0426.C9.o1.tm	Method	TBLASTX:Maize
Start	10460	End	11233
GI	none	Score	686
Exons	10460..11023, 10515..11027, 11072..11233, 11085..11231		

Seq. No.	54195	Seq. ID	OJ000102_74.0426.C9
Gene No.	113714	Strand	-
Start	9971	End	13061
Name	OJ000102_74.0426.C9.o1.tc	Method	TBLASTX:Cress
Start	10604	End	11009
GI	none	Score	92
Exons	10604..10744, 10772..10879, 10887..11009, 10889..11008		

Seq. No.	54196	Seq. ID	OJ000102_74.0426.C10
Gene No.	113715	Strand	-
Start	107	End	206
Name	OJ000102_74.0426.C10.o1.gs	Method	GENSCAN
Start	107	End	206
GI	none	Score	.85
Exons	107..206		

Seq. No.	54196	Seq. ID	OJ000102_74.0426.C10
Gene No.	113716	Strand	-
Start	1442	End	1576
Name	OJ000102_74.0426.C10.o2.gs	Method	GENSCAN
Start	1442	End	1576
GI	none	Score	.51

Exons	1442..1576		
Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113717	Strand	+
Start	341	End	1247
Name	OJ000102_74.0426.C11.o1.gs	Method	GENSCAN
Start	341	End	1247
GI	none	Score	.9
Exons	341..497, 1003..1247		
Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113718	Strand	+
Start	2294	End	11250
Name	OJ000102_74.0426.C11.o2.gs	Method	GENSCAN
Start	2294	End	11250
GI	none	Score	.6
Exons	2294..2313, 3655..3759, 3809..3890, 4708..5478, 5914..5944, 6173..6316, 6613..6807, 7174..7214, 7443..7628, 8347..8575, 8853..9048, 10410..10473, 11125..11250		
Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113718	Strand	+
Start	2294	End	11250
Name	OJ000102_74.0426.C11.o1.np	Method	AAT/NAP
Start	5035	End	9048
GI	3953478	Score	2128
Exons	5035..5138, 5200..5478, 5914..6316, 6613..6807, 7174..7628, 7729..7833, 7994..8221, 8347..8602, 8810..9048		
GI Descrip.	(AC002328) F22O2.23 [Arabidopsis thaliana]		
Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113719	Strand	+
Start	12604	End	16272
Name	OJ000102_74.0426.C11.o3.gs	Method	GENSCAN
Start	12604	End	16272
GI	none	Score	.66
Exons	12604..12789, 13071..13153, 14832..14920, 15012..15780, 15813..16272		
Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113719	Strand	+
Start	12604	End	16272
Name	OJ000102_74.0426.C11.o2.np	Method	AAT/NAP
Start	14749	End	16272
GI	7489168	Score	744
Exons	14749..14920, 15009..16272		
GI Descrip.	nucleoid DNA-binding protein cnd41, chloroplast - common tobacco gi|2541876|dbj|BAA22813.1| (D26015) CND41, chloroplast nucleoid DNA binding protein [Nicotiana tabacum]		
Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113719	Strand	+
Start	12604	End	16272
Name	OJ000102_74.0426.C11.o2.gp	Method	AAT/GAP
Start	14765	End	15167
GI	427617	Score	802
Exons	14765..15167		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113719	Strand	+
Start	12604	End	16272
Name	OJ000102_74.0426.C11.o3.gp	Method	AAT/GAP
Start	15370	End	15586
GI	LIB3434-041-P1-K1-D5	Score	340
Exons	15370..15586		
GI Descrip.	'3953471 2.0e-28 (AC002328) F22O2.16 [Arabidopsis thaliana]'		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113719	Strand	+
Start	12604	End	16272
Name	OJ000102_74.0426.C11.o4.gp	Method	AAT/GAP
Start	15741	End	16144
GI	LIB3434-057-P1-K1-A4	Score	719
Exons	15741..16144		
GI Descrip.	'2541876/dbj|BAA22813| 2.0e-19 (D26015) CND41, chloroplast nucleoid DNA binding protein [Nicotiana tabacum]'		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113720	Strand	+
Start	16202	End	16564
Name	OJ000102_74.0426.C11.o5.gp	Method	AAT/GAP
Start	16202	End	16564
GI	none	Score	688
Exons	16202..16564		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113721	Strand	+
Start	23817	End	24352
Name	OJ000102_74.0426.C11.o6.gp	Method	AAT/GAP
Start	23817	End	24352
GI	none	Score	1031
Exons	23817..24352		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113722	Strand	-
Start	18202	End	20722
Name	OJ000102_74.0426.C11.o4.gs	Method	GENSCAN
Start	18202	End	19783
GI	none	Score	.43
Exons	18202..19532, 19642..19783		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113722	Strand	-
Start	18202	End	20722
Name	OJ000102_74.0426.C11.o3.np	Method	AAT/NAP
Start	18271	End	20722
GI	7489168	Score	671
Exons	18271..19509, 20610..20722		
GI Descrip.	nucleoid DNA-binding protein cnd41, chloroplast - common tobacco gi|2541876|dbj|BAA22813.1| (D26015) CND41, chloroplast nucleoid DNA binding protein [Nicotiana tabacum]		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-

Start	21955	End	24845
Name	OJ000102_74.0426.C11.o3.ts	Method	TBLASTX:Soybean
Start	5383	End	6194
GI	none	Score	67
Exons	5383..5481, 5920..6192, 5926..6174, 6105..6194		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o4.ts	Method	TBLASTX:Soybean
Start	6597	End	7280
GI	none	Score	277
Exons	6597..6749, 6603..6806, 6608..6805, 7167..7280, 7169..7240		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o4.tm	Method	TBLASTX:Maize
Start	6611	End	6804
GI	none	Score	308
Exons	6611..6802, 6612..6803, 6742..6804		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o1.tw	Method	TBLASTX:Wheat
Start	6638	End	7399
GI	none	Score	164
Exons	6638..6781, 6639..6782, 7152..7397, 7160..7399, 7160..7399		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o2.tm	Method	TBLASTX:Maize
Start	7368	End	7800
GI	none	Score	303
Exons	7368..7628, 7368..7523, 7370..7579, 7572..7622, 7728..7799, 7729..7800		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o2.ts	Method	TBLASTX:Soybean
Start	7376	End	8098
GI	5342530	Score	280
Exons	7376..7525, 7377..7628, 7728..7835, 7731..7832, 7732..7863, 7732..7854, 7993..8046, 7994..8098		
GI Descrip.	3953478 4.0e-59 (AC002328) F22O2.23 [Arabidopsis thaliana]		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o5.tm	Method	TBLASTX:Maize
Start	7997	End	9001
GI	none	Score	127
Exons	7997..8182, 8147..8236, 8178..8222, 8340..8492, 8343..8516, 8344..8514, 8402..8533, 8429..8524, 8806..9000, 8819..9001		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o2.tc	Method	TBLASTX:Cress
Start	8344	End	9049
GI	none	Score	133
Exons	8344..8505, 8358..8498, 8807..9049, 8866..8976		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o6.ts	Method	TBLASTX:Soybean
Start	8866	End	9034
GI	none	Score	190
Exons	8866..9027, 8867..9034		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o1.ts	Method	TBLASTX:Soybean
Start	15212	End	19323
GI	none	Score	123
Exons	15212..15355, 15368..15430, 15472..15561, 15473..15571, 15575..15691, 15703..15732, 15829..15918, 15832..15906, 15865..16137, 15906..16130, 16143..16262, 16144..16254, 18307..18393, 18308..18391, 18403..18537, 18437..18508, 18541..18636, 18566..18637, 18625..18774, 18775..18849, 18776..18829, 18817..18894, 18910..19044, 18929..19024, 19075..19167, 19180..19323		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o1.tc	Method	TBLASTX:Cress
Start	15218	End	19318
GI	none	Score	119
Exons	15218..15355, 15356..15430, 15494..15577, 15572..15697, 15712..15729, 16021..16116, 16153..16251, 18307..18399, 18403..18513, 18910..19074, 18932..19045, 19078..19179, 19180..19317, 19205..19318		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o3.tm	Method	TBLASTX:Maize
Start	15218	End	19333
GI	none	Score	117
Exons	15218..15355, 15223..15342, 15360..15398, 15368..15427, 15472..15573, 15473..15580, 15601..15708, 15605..15709, 15703..15729, 18676..18774, 18814..19179, 18926..19147, 19180..19332, 19193..19333		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o1.tm	Method	TBLASTX:Maize

Start	15868	End	18675
GI	none	Score	188
Exons	15868..16011, 15873..16019, 15981..16019, 15981..16271, 16002..16073, 16021..16254, 18301..18423, 18307..18513, 18308..18514, 18541..18675, 18563..18667		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o5.gs	Method	GENSCAN
Start	21955	End	24372
GI	none	Score	.82
Exons	21955..23144, 24097..24372		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o3.tc	Method	TBLASTX:Cress
Start	22090	End	22468
GI	none	Score	44
Exons	22090..22452, 22106..22156, 22232..22468		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o7.tm	Method	TBLASTX:Maize
Start	22090	End	22479
GI	none	Score	91
Exons	22090..22323, 22091..22321, 22363..22479		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o4.np	Method	AAT/NAP
Start	22090	End	23779
GI	3157929	Score	259
Exons	22090..22803, 23753..23779		
GI Descrip.	(AC002131) Contains similarity to hypothetical protein gb|Z97336 from A. thaliana. [Arabidopsis thaliana]		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o5.ts	Method	TBLASTX:Soybean
Start	22090	End	22476
GI	none	Score	64
Exons	22090..22323, 22100..22159, 22363..22476, 22364..22474		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o6.tm	Method	TBLASTX:Maize
Start	24059	End	24373
GI	none	Score	45
Exons	24059..24127, 24068..24127, 24150..24266, 24151..24297, 24152..24319, 24153..24299, 24319..24372, 24323..24373		

Seq. No.	54197	Seq. ID	OJ000102_74.0426.C11
Gene No.	113723	Strand	-
Start	21955	End	24845
Name	OJ000102_74.0426.C11.o5.np	Method	AAT/NAP
Start	24101	End	24845
GI	4587597	Score	94
Exons	24101..24395, 24805..24845		
GI Descrip.	(AC006951) putative protein phosphatase [Arabidopsis thaliana]		

Seq. No.	54198	Seq. ID	OJ000102_74.0426.C12
Gene No.	113724	Strand	-
Start	1	End	5683
Name	OJ000102_74.0426.C12.o1.np	Method	AAT/NAP
Start	1	End	2443
GI	4587597	Score	460
Exons	1..26, 328..437, 522..579, 834..933, 2204..2443		
GI Descrip.	(AC006951) putative protein phosphatase [Arabidopsis thaliana]		

Seq. No.	54198	Seq. ID	OJ000102_74.0426.C12
Gene No.	113724	Strand	-
Start	1	End	5683
Name	OJ000102_74.0426.C12.o4.tm	Method	TBLASTX:Maize
Start	316	End	944
GI	none	Score	67
Exons	316..393, 329..442, 330..440, 521..610, 522..581, 829..936, 833..940, 834..944, 844..936		

Seq. No.	54198	Seq. ID	OJ000102_74.0426.C12
Gene No.	113724	Strand	-
Start	1	End	5683
Name	OJ000102_74.0426.C12.o2.ts	Method	TBLASTX:Soybean
Start	326	End	2444
GI	none	Score	108
Exons	326..442, 330..440, 521..610, 522..581, 835..948, 847..960, 2204..2344, 2351..2422, 2352..2444		

Seq. No.	54198	Seq. ID	OJ000102_74.0426.C12
Gene No.	113724	Strand	-
Start	1	End	5683
Name	OJ000102_74.0426.C12.o1.gs	Method	GENSCAN
Start	331	End	5549
GI	none	Score	.67
Exons	331..579, 834..933, 2204..2531, 2638..2827, 3230..3353, 3453..3767, 3954..4102, 4275..4362, 4450..4761, 4872..4932, 4941..5026, 5120..5335, 5448..5549		

Seq. No.	54198	Seq. ID	OJ000102_74.0426.C12
Gene No.	113724	Strand	-
Start	1	End	5683
Name	OJ000102_74.0426.C12.o3.tc	Method	TBLASTX:Cress
Start	868	End	2444
GI	none	Score	37
Exons	868..942, 2204..2308, 2229..2255, 2354..2422, 2358..2444		

Seq. No.	54198	Seq. ID	OJ000102_74.0426.C12
Gene No.	113724	Strand	-
Start	1	End	5683

Name	OJ000102_74.0426.C12.o3.tm	Method	TBLASTX:Maize
Start	2196	End	2444
GI	none	Score	83
Exons	2196..2255, 2198..2326, 2330..2422, 2334..2444		

Seq. No.	54198	Seq. ID	OJ000102_74.0426.C12
Gene No.	113724	Strand	-
Start	1	End	5683
Name	OJ000102_74.0426.C12.o1.gp	Method	AAT/GAP
Start	2437	End	2823
GI	none	Score	758
Exons	2437..2823		

Seq. No.	54198	Seq. ID	OJ000102_74.0426.C12
Gene No.	113724	Strand	-
Start	1	End	5683
Name	OJ000102_74.0426.C12.o2.np	Method	AAT/NAP
Start	3195	End	5683
GI	7485328	Score	884
Exons	3195..3289, 4275..4362, 4450..4761, 4872..5026, 5120..5335, 5448..5683		
GI Descrip.	hypothetical protein F10M23.100 - Arabidopsis thaliana gi|4455199|emb|CAB36522.1| (AL035440) putative protein [Arabidopsis thaliana] gi|7269528|emb|CAB79531.1| (AL161565) putative protein [Arabidopsis thaliana]		

Seq. No.	54198	Seq. ID	OJ000102_74.0426.C12
Gene No.	113724	Strand	-
Start	1	End	5683
Name	OJ000102_74.0426.C12.o2.tm	Method	TBLASTX:Maize
Start	3428	End	5677
GI	none	Score	39
Exons	3428..3553, 3431..3502, 3501..3629, 3507..3770, 3537..3623, 3628..3768, 5108..5338, 5133..5336, 5164..5337, 5449..5511, 5499..5636, 5500..5628, 5639..5677, 5640..5675		

Seq. No.	54198	Seq. ID	OJ000102_74.0426.C12
Gene No.	113724	Strand	-
Start	1	End	5683
Name	OJ000102_74.0426.C12.o1.tm	Method	TBLASTX:Maize
Start	3967	End	5035
GI	none	Score	113
Exons	3967..4104, 3990..4103, 4276..4365, 4279..4392, 4450..4770, 4453..4776, 4647..4787, 4872..4931, 4900..4926, 4919..5035		

Seq. No.	54198	Seq. ID	OJ000102_74.0426.C12
Gene No.	113724	Strand	-
Start	1	End	5683
Name	OJ000102_74.0426.C12.o1.ts	Method	TBLASTX:Soybean
Start	4447	End	5338
GI	none	Score	172
Exons	4447..4764, 4447..4770, 4589..4771, 4872..4931, 4900..4929, 4937..5029, 4943..5029, 5108..5338, 5127..5336, 5180..5338		

Seq. No.	54198	Seq. ID	OJ000102_74.0426.C12
Gene No.	113724	Strand	-
Start	1	End	5683

Name	OJ000102_74.0426.C12.o1.tc	Method	TBLASTX:Cress
Start	4450	End	4913
GI	none	Score	153
Exons	4450..4770, 4456..4764, 4589..4771, 4872..4913		

Seq. No.	54198	Seq. ID	OJ000102_74.0426.C12
Gene No.	113724	Strand	-
Start	1	End	5683
Name	OJ000102_74.0426.C12.o2.tc	Method	TBLASTX:Cress
Start	4940	End	5338
GI	none	Score	69
Exons	4940..5029, 4946..5035, 5108..5338, 5118..5336, 5128..5337		

Seq. No.	54198	Seq. ID	OJ000102_74.0426.C12
Gene No.	113724	Strand	-
Start	1	End	5683
Name	OJ000102_74.0426.C12.o1.tw	Method	TBLASTX:Wheat
Start	5144	End	5681
GI	none	Score	149
Exons	5144..5338, 5154..5336, 5168..5338, 5449..5598, 5499..5642, 5500..5619, 5607..5681, 5640..5681		

Seq. No.	54199	Seq. ID	OJ000102_74.0426.C13
Gene No.	113725	Strand	+
Start	2786	End	4272
Name	OJ000102_74.0426.C13.o2.gs	Method	GENSCAN
Start	2786	End	4232
GI	none	Score	.77
Exons	2786..3129, 3858..3912, 4029..4232		

Seq. No.	54199	Seq. ID	OJ000102_74.0426.C13
Gene No.	113725	Strand	+
Start	2786	End	4272
Name	OJ000102_74.0426.C13.o2.np	Method	AAT/NAP
Start	3841	End	4272
GI	7485328	Score	194
Exons	3841..3912, 4029..4272		
GI Descrip.	hypothetical protein F10M23.100 - Arabidopsis thaliana gi|4455199|emb|CAB36522.1| (AL035440) putative protein [Arabidopsis thaliana] gi|7269528|emb|CAB79531.1| (AL161565) putative protein [Arabidopsis thaliana]		

Seq. No.	54199	Seq. ID	OJ000102_74.0426.C13
Gene No.	113726	Strand	-
Start	898	End	3654
Name	OJ000102_74.0426.C13.o1.gs	Method	GENSCAN
Start	898	End	2361
GI	none	Score	.47
Exons	898..932, 1085..1159, 1672..1993, 2067..2361		

Seq. No.	54199	Seq. ID	OJ000102_74.0426.C13
Gene No.	113726	Strand	-
Start	898	End	3654
Name	OJ000102_74.0426.C13.o1.np	Method	AAT/NAP
Start	1722	End	3654
GI	6729484	Score	106
Exons	1722..1993, 2067..2165, 3018..3188, 3631..3654		

GI Descrip. (AL132966) putative protein [Arabidopsis thaliana]

Seq. No.	54199	Seq. ID	OJ000102_74.0426.C13
Gene No.	113727	Strand	
Start	3719	End	4231
Name	OJ000102_74.0426.C13.o1.tc	Method	TBLASTX:Cress
Start	3719	End	4223
GI	none	Score	50
Exons	3719..3784, 3871..3912, 4011..4217, 4026..4223		

Seq. No.	54199	Seq. ID	OJ000102_74.0426.C13
Gene No.	113727	Strand	
Start	3719	End	4231
Name	OJ000102_74.0426.C13.o1.ts	Method	TBLASTX:Soybean
Start	3868	End	4220
GI	none	Score	54
Exons	3868..3912, 4011..4145, 4030..4146, 4033..4146, 4152..4220		

Seq. No.	54199	Seq. ID	OJ000102_74.0426.C13
Gene No.	113727	Strand	
Start	3719	End	4231
Name	OJ000102_74.0426.C13.o1.tm	Method	TBLASTX:Maize
Start	3875	End	4231
GI	none	Score	49
Exons	3875..3910, 3876..3911, 4011..4223, 4026..4217, 4097..4231		

Seq. No.	54200	Seq. ID	OJ000102_74.0426.C16
Gene No.	113728	Strand	+
Start	95	End	1303
Name	OJ000102_74.0426.C16.o1.gs	Method	GENSCAN
Start	95	End	1303
GI	none	Score	1
Exons	95..1303		

Seq. No.	54200	Seq. ID	OJ000102_74.0426.C16
Gene No.	113728	Strand	+
Start	95	End	1303
Name	OJ000102_74.0426.C16.o1.np	Method	AAT/NAP
Start	95	End	1300
GI	1196998	Score	2114
Exons	95..1300		

GI Descrip. (J01829) unknown protein [Transposon Tn10] gi|5103202|dbj|BAA78838.1| (AP000342) transposase of Tn10 [Plasmid R100] gi|5706382|dbj|BAA83097.1| (AB026428) transposase [Methylomonas aminofaciens] gi|5738092|gb|AAD50250.1|AF162223_9 (AF162223) IS10-right transposase [Shigella flexneri] gi|6721110|gb|AAF26764.1|AC007396_13 (AC007396) T4O12.21 [Arabidopsis thaliana]

Seq. No.	54200	Seq. ID	OJ000102_74.0426.C16
Gene No.	113729	Strand	+
Start	1312	End	1569
Name	OJ000102_74.0426.C16.o1.tc	Method	TBLASTX:Cress
Start	1	End	135
GI	none	Score	199
Exons	1..135, 2..133		

Seq. No.	54200	Seq. ID	OJ000102_74.0426.C16
Gene No.	113729	Strand	+
Start	1312	End	1569
Name	OJ000102_74.0426.C16.o2.np	Method	AAT/NAP
Start	1312	End	1569
GI	3953478	Score	84
Exons	1312..1422, 1549..1569		
GI Descrip.	(AC002328) F22O2.23 [Arabidopsis thaliana]		

Seq. No.	54201	Seq. ID	OJ000102_74.0426.C17
Gene No.	113730	Strand	+
Start	555	End	1019
Name	OJ000102_74.0426.C17.o1.gs	Method	GENSCAN
Start	555	End	960
GI	none	Score	.5
Exons	555..960		

Seq. No.	54201	Seq. ID	OJ000102_74.0426.C17
Gene No.	113730	Strand	+
Start	555	End	1019
Name	OJ000102_74.0426.C17.o1.tm	Method	TBLASTX:Maize
Start	753	End	1015
GI	none	Score	404
Exons	753..1013, 756..1007, 760..1008, 761..1015		

Seq. No.	54201	Seq. ID	OJ000102_74.0426.C17
Gene No.	113730	Strand	+
Start	555	End	1019
Name	OJ000102_74.0426.C17.o1.ts	Method	TBLASTX:Soybean
Start	759	End	1019
GI	none	Score	173
Exons	759..920, 759..899, 844..900, 923..1003, 924..1019, 927..1004		

Seq. No.	54202	Seq. ID	OJ000102_77.0426.C1
Gene No.	113731	Strand	-
Start	1	End	6875
Name	OJ000102_77.0426.C1.o1.np	Method	AAT/NAP
Start	1	End	4586
GI	6862912	Score	890
Exons	1..198, 491..649, 751..1146, 2455..2626, 4532..4586		
GI Descrip.	(AC018907) unknown protein [Arabidopsis thaliana]		

Seq. No.	54202	Seq. ID	OJ000102_77.0426.C1
Gene No.	113731	Strand	-
Start	1	End	6875
Name	OJ000102_77.0426.C1.o1.gp	Method	AAT/GAP
Start	67	End	1021
GI	53984_1.R1084	Score	1058
Exons	67..198, 491..649, 751..1021		
GI Descrip.	'6006895/gb|AAF00670.1|AC008153_22 8.0e-56 (AC008153) hypothetical protein [Arabidopsis thaliana]'		

Seq. No.	54202	Seq. ID	OJ000102_77.0426.C1
Gene No.	113731	Strand	-
Start	1	End	6875
Name	OJ000102_77.0426.C1.o1.tm	Method	TBLASTX:Maize
Start	72	End	910

GI	none	Score	93
Exons	72..239, 81..188, 100..201, 490..648, 492..644, 493..645, 737..907, 738..908, 750..908, 755..910		

Seq. No.	54202	Seq. ID	OJ000102_77.0426.C1
Gene No.	113731	Strand	-
Start	1	End	6875
Name	OJ000102_77.0426.C1.o1.tc	Method	TBLASTX:Cress
Start	144	End	987
GI	none	Score	62
Exons	144..239, 151..201, 490..651, 491..655, 753..821, 754..822, 798..986, 886..987, 919..987		

Seq. No.	54202	Seq. ID	OJ000102_77.0426.C1
Gene No.	113731	Strand	-
Start	1	End	6875
Name	OJ000102_77.0426.C1.o1.gs	Method	GENSCAN
Start	491	End	2831
GI	none	Score	.75
Exons	491..649, 751..1146, 2455..2831		

Seq. No.	54202	Seq. ID	OJ000102_77.0426.C1
Gene No.	113731	Strand	-
Start	1	End	6875
Name	OJ000102_77.0426.C1.o1.tw	Method	TBLASTX:Wheat
Start	753	End	2498
GI	none	Score	60
Exons	753..818, 909..992, 996..1148, 2463..2498		

Seq. No.	54202	Seq. ID	OJ000102_77.0426.C1
Gene No.	113731	Strand	-
Start	1	End	6875
Name	OJ000102_77.0426.C1.o3.tm	Method	TBLASTX:Maize
Start	912	End	1148
GI	none	Score	136
Exons	912..1025, 1011..1148		

Seq. No.	54202	Seq. ID	OJ000102_77.0426.C1
Gene No.	113731	Strand	-
Start	1	End	6875
Name	OJ000102_77.0426.C1.o1.ts	Method	TBLASTX:Soybean
Start	930	End	2624
GI	none	Score	80
Exons	930..1148, 955..1092, 2452..2556, 2463..2624, 2568..2615		

Seq. No.	54202	Seq. ID	OJ000102_77.0426.C1
Gene No.	113731	Strand	-
Start	1	End	6875
Name	OJ000102_77.0426.C1.o2.np	Method	AAT/NAP
Start	2419	End	6875
GI	7484961	Score	214
Exons	2419..2625, 3005..3031, 3553..3589, 4495..4772, 4896..5080, 6371..6875		
GI Descrip.	extensin homolog T9E8.80 - Arabidopsis thaliana gi|4584539|emb|CAB40769.1| (AL049608) extensin-like protein [Arabidopsis thaliana] gi|7268037|emb|CAB78376.1| (AL161536) extensin-like protein [Arabidopsis thaliana]		

Seq. No.	54202	Seq. ID	OJ000102_77.0426.C1
Gene No.	113731	Strand	-
Start	1	End	6875
Name	OJ000102_77.0426.C1.o2.tm	Method	TBLASTX:Maize
Start	2452	End	2624
GI	none	Score	120
Exons	2452..2571, 2466..2582, 2580..2624		

Seq. No.	54202	Seq. ID	OJ000102_77.0426.C1
Gene No.	113731	Strand	-
Start	1	End	6875
Name	OJ000102_77.0426.C1.o2.gs	Method	GENSCAN
Start	4472	End	5137
GI	none	Score	1
Exons	4472..5137		

Seq. No.	54202	Seq. ID	OJ000102_77.0426.C1
Gene No.	113731	Strand	-
Start	1	End	6875
Name	OJ000102_77.0426.C1.o2.gp	Method	AAT/GAP
Start	5331	End	5702
GI	55507_1.R1084	Score	474
Exons	5331..5404, 5443..5702		
GI Descrip.	'5042437/gb|AC007789.1|AC007789 1.0e-16 Oryza sativa BAC T49B20 genomic sequence, complete sequence'		

Seq. No.	54203	Seq. ID	OJ000102_77.0426.C2
Gene No.	113732	Strand	+
Start	2753	End	3154
Name	OJ000102_77.0426.C2.o1.np	Method	AAT/NAP
Start	2753	End	3154
GI	6069646	Score	465
Exons	2753..3154		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	54203	Seq. ID	OJ000102_77.0426.C2
Gene No.	113733	Strand	+
Start	4367	End	11546
Name	OJ000102_77.0426.C2.o1.gp	Method	AAT/GAP
Start	4215	End	7767
GI	1648_2.R1084	Score	1789
Exons	4215..4569, 6467..6707, 6833..6953, 7092..7207, 7468..7767		
GI Descrip.	'451193 1.0e-52 (L28008) wali7 [Triticum aestivum] >gi_1090845_prf__2019486B wali7 gene [Triticum aestivum]'		

Seq. No.	54203	Seq. ID	OJ000102_77.0426.C2
Gene No.	113733	Strand	+
Start	4367	End	11546
Name	OJ000102_77.0426.C2.o2.gs	Method	GENSCAN
Start	4367	End	11546
GI	none	Score	.68
Exons	4367..4569, 6467..6707, 6833..6953, 7092..7207, 8484..8815,		

9330..9458, 10802..10897, 11540..11546

Seq. No.	54203	Seq. ID	OJ000102_77.0426.C2
Gene No.	113733	Strand	+
Start	4367	End	11546
Name	OJ000102_77.0426.C2.o2.np	Method	AAT/NAP
Start	4370	End	7603
GI	7489671	Score	931
Exons	4370..4569, 6467..6707, 6833..6953, 7092..7207, 7468..7603		
GI Descrip.	hypothetical protein wali7 - wheat (fragment) gi|451193|gb|AAC37416.1| (L28008) wali7 [Triticum aestivum] gi|1090845|prf||2019486B wali7 gene [Triticum aestivum]		

Seq. No.	54203	Seq. ID	OJ000102_77.0426.C2
Gene No.	113734	Strand	+
Start	12133	End	12990
Name	OJ000102_77.0426.C2.o4.np	Method	AAT/NAP
Start	12133	End	12990
GI	6721507	Score	96
Exons	12133..12396, 12642..12705, 12912..12990		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	54203	Seq. ID	OJ000102_77.0426.C2
Gene No.	113735	Strand	-
Start	6211	End	12245
Name	OJ000102_77.0426.C2.o2.tm	Method	TBLASTX:Maize
Start	2800	End	8245
GI	none	Score	90
Exons	2800..2898, 2939..3124, 7940..8152, 8081..8245		

Seq. No.	54203	Seq. ID	OJ000102_77.0426.C2
Gene No.	113735	Strand	-
Start	6211	End	12245
Name	OJ000102_77.0426.C2.o1.ts	Method	TBLASTX:Soybean
Start	4342	End	7213
GI	none	Score	199
Exons	4342..4518, 4355..4570, 6464..6589, 6465..6707, 6471..6707, 6650..6709, 6833..6955, 6841..6954, 7091..7117, 7117..7209, 7118..7213		

Seq. No.	54203	Seq. ID	OJ000102_77.0426.C2
Gene No.	113735	Strand	-
Start	6211	End	12245
Name	OJ000102_77.0426.C2.o1.tc	Method	TBLASTX:Cress
Start	4361	End	7213
GI	none	Score	215
Exons	4361..4570, 4363..4518, 6450..6707, 6465..6707, 6650..6709, 6832..6954, 6833..6955, 7091..7117, 7118..7213, 7120..7209, 7133..7213		

Seq. No.	54203	Seq. ID	OJ000102_77.0426.C2
Gene No.	113735	Strand	-
Start	6211	End	12245
Name	OJ000102_77.0426.C2.o1.tm	Method	TBLASTX:Maize
Start	4362	End	7599
GI	none	Score	82
Exons	4362..4403, 4363..4518, 4364..4570, 4545..4574, 6464..6556,		

6464..6556, 6465..6584, 6552..6707, 6555..6695, 6821..6955, 6832..6954, 7090..7116, 7091..7117, 7118..7210, 7120..7209, 7123..7236, 7468..7509, 7474..7599, 7559..7591

Seq. No.	54203	Seq. ID	OJ000102_77.0426.C2
Gene No.	113735	Strand	-
Start	6211	End	12245
Name	OJ000102_77.0426.C2.o3.np	Method	AAT/NAP
Start	6211	End	12245
GI	6598399	Score	50
Exons	6211..6269, 7984..8150, 12218..12245		
GI Descrip.	(AC003952) putative non-LTR retroelement reverse transcriptase [Arabidopsis thaliana]		

Seq. No.	54204	Seq. ID	OJ000102_77.0426.C4
Gene No.	113736	Strand	+
Start	265	End	1025
Name	OJ000102_77.0426.C4.o1.gs	Method	GENSCAN
Start	265	End	1025
GI	none	Score	.51
Exons	265..336, 885..1025		

Seq. No.	54205	Seq. ID	OJ000102_77.0426.C9
Gene No.	113737	Strand	+
Start	1353	End	1627
Name	OJ000102_77.0426.C9.o1.gs	Method	GENSCAN
Start	1353	End	1627
GI	none	Score	.66
Exons	1353..1627		

Seq. No.	54205	Seq. ID	OJ000102_77.0426.C9
Gene No.	113738	Strand	-
Start	1410	End	4288
Name	OJ000102_77.0426.C9.o1.tm	Method	TBLASTX:Maize
Start	1351	End	1626
GI	none	Score	205
Exons	1351..1626, 1352..1480, 1359..1619		

Seq. No.	54205	Seq. ID	OJ000102_77.0426.C9
Gene No.	113738	Strand	-
Start	1410	End	4288
Name	OJ000102_77.0426.C9.o2.np	Method	AAT/NAP
Start	1410	End	4103
GI	7106110	Score	91
Exons	1410..1433, 2472..2500, 3015..3121, 4012..4103		
GI Descrip.	(AL157917) conserved hypothetical protein [Schizosaccharomyces pombe]		

Seq. No.	54205	Seq. ID	OJ000102_77.0426.C9
Gene No.	113738	Strand	-
Start	1410	End	4288
Name	OJ000102_77.0426.C9.o1.gp	Method	AAT/GAP
Start	2165	End	2639
GI	none	Score	934
Exons	2165..2639		

Seq. No.	54205	Seq. ID	OJ000102_77.0426.C9

Gene No.	113738	Strand	-
Start	1410	End	4288
Name	OJ000102_77.0426.C9.o2.tm	Method	TBLASTX:Maize
Start	2307	End	4269
GI	none	Score	149
Exons	2307..2492, 2331..2501, 2338..2505, 3005..3115, 3011..3112, 3016..3120, 3016..3120, 4011..4124, 4012..4125, 4104..4268, 4168..4269		

Seq. No.	54205	Seq. ID	OJ000102_77.0426.C9
Gene No.	113738	Strand	-
Start	1410	End	4288
Name	OJ000102_77.0426.C9.o2.gs	Method	GENSCAN
Start	3802	End	4288
GI	none	Score	.52
Exons	3802..3975, 4012..4288		

Seq. No.	54206	Seq. ID	OJ000102_77.0426.C10
Gene No.	113739	Strand	-
Start	707	End	941
Name	OJ000102_77.0426.C10.o1.np	Method	AAT/NAP
Start	707	End	941
GI	6069646	Score	110
Exons	707..941		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	54206	Seq. ID	OJ000102_77.0426.C10
Gene No.	113740	Strand	-
Start	944	End	1028
Name	OJ000102_77.0426.C10.o2.np	Method	AAT/NAP
Start	944	End	1028
GI	5852084	Score	69
Exons	944..1028		
GI Descrip.	(AL117264) zwh0007.1 [Oryza sativa]		

Seq. No.	54206	Seq. ID	OJ000102_77.0426.C10
Gene No.	113741	Strand	-
Start	1360	End	6922
Name	OJ000102_77.0426.C10.o2.gs	Method	GENSCAN
Start	1360	End	6875
GI	none	Score	.93
Exons	1360..1635, 2349..2735, 2933..3288, 3661..3784, 4928..4976, 5960..6074, 6592..6641, 6738..6875		

Seq. No.	54206	Seq. ID	OJ000102_77.0426.C10
Gene No.	113741	Strand	-
Start	1360	End	6922
Name	OJ000102_77.0426.C10.o3.np	Method	AAT/NAP
Start	1363	End	6922
GI	7487879	Score	1529
Exons	1363..1635, 2349..2776, 2932..3288, 3661..3784, 3866..3934, 4743..4832, 4928..4976, 5960..6074, 6592..6641, 6738..6922		
GI Descrip.	hypothetical protein T9J22.13 - Arabidopsis thaliana		

gi|2739371|gb|AAC14495.1| (AC002505) unknown protein [Arabidopsis thaliana]

Seq. No.	54206	Seq. ID	OJ000102_77.0426.C10
Gene No.	113741	Strand	-
Start	1360	End	6922
Name	OJ000102_77.0426.C10.o1.ts	Method	TBLASTX:Soybean
Start	1441	End	2537
GI	none	Score	254
Exons	1441..1638, 1466..1654, 2345..2497, 2349..2537		

Seq. No.	54206	Seq. ID	OJ000102_77.0426.C10
Gene No.	113741	Strand	-
Start	1360	End	6922
Name	OJ000102_77.0426.C10.o2.tm	Method	TBLASTX:Maize
Start	1441	End	1638
GI	none	Score	272
Exons	1441..1638, 1469..1636		

Seq. No.	54206	Seq. ID	OJ000102_77.0426.C10
Gene No.	113741	Strand	-
Start	1360	End	6922
Name	OJ000102_77.0426.C10.o1.tm	Method	TBLASTX:Maize
Start	2344	End	2989
GI	none	Score	211
Exons	2344..2403, 2345..2533, 2349..2723, 2454..2729, 2455..2724, 2933..2989, 2936..2989		

Seq. No.	54206	Seq. ID	OJ000102_77.0426.C10
Gene No.	113741	Strand	-
Start	1360	End	6922
Name	OJ000102_77.0426.C10.o2.ts	Method	TBLASTX:Soybean
Start	2544	End	3790
GI	none	Score	62
Exons	2544..2654, 2544..2615, 2656..2736, 2664..2735, 2933..2989, 2993..3220, 2993..3262, 3609..3785, 3622..3786, 3632..3790, 3632..3781, 3660..3785		

Seq. No.	54206	Seq. ID	OJ000102_77.0426.C10
Gene No.	113741	Strand	-
Start	1360	End	6922
Name	OJ000102_77.0426.C10.o3.tm	Method	TBLASTX:Maize
Start	2992	End	3297
GI	none	Score	67
Exons	2992..3042, 2993..3043, 2993..3043, 3002..3178, 3045..3236, 3045..3230, 3047..3271, 3224..3295, 3225..3296, 3225..3296, 3235..3297		

Seq. No.	54206	Seq. ID	OJ000102_77.0426.C10
Gene No.	113741	Strand	-
Start	1360	End	6922
Name	OJ000102_77.0426.C10.o5.tm	Method	TBLASTX:Maize
Start	3693	End	6081
GI	none	Score	135
Exons	3693..3785, 3693..3785, 3694..3792, 3694..3792, 3864..3935, 3865..3936, 3866..3940, 3866..3940, 4741..4833, 4741..4833, 4742..4834, 4743..4835, 4743..4835, 4904..4978, 4917..4988,		

4928..4978, 5929..6075, 5972..6079, 6001..6081

Seq. No.	54206	Seq. ID	OJ000102_77.0426.C10
Gene No.	113741	Strand	-
Start	1360	End	6922
Name	OJ000102_77.0426.C10.o4.tm	Method	TBLASTX:Maize
Start	6593	End	6880
GI	none	Score	62
Exons	6593..6643, 6594..6644, 6715..6879, 6737..6880		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113742	Strand	+
Start	10352	End	12088
Name	OJ000102_77.0426.C11.o3.gs	Method	GENSCAN
Start	10352	End	12088
GI	none	Score	.69
Exons	10352..10412, 10572..10614, 10742..10799, 11008..11178, 12023..12088		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113743	Strand	+
Start	16916	End	18937
Name	OJ000102_77.0426.C11.o3.np	Method	AAT/NAP
Start	16916	End	18937
GI	6539567	Score	101
Exons	16916..16965, 18518..18775, 18817..18937		
GI Descrip.	(AP000836) EST C72938(E2506) corresponds to a region of the predicted gene.; Similar to Arabidopsis thaliana chromosome I BAC T5A14 genomic sequence; unknown protein (AC005223) [Oryza sativa]		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113744	Strand	+
Start	36744	End	38489
Name	OJ000102_77.0426.C11.o6.gs	Method	GENSCAN
Start	36744	End	38489
GI	none	Score	.5
Exons	36744..36798, 36821..36890, 37021..37178, 37259..37332, 37574..37682, 37726..37770, 38097..38179, 38331..38489		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113744	Strand	+
Start	36744	End	38489
Name	OJ000102_77.0426.C11.o9.gp	Method	AAT/GAP
Start	37010	End	38373
GI	702145	Score	780
Exons	37010..37142, 37259..37332, 37574..37682, 38097..38180, 38331..38373		
GI Descrip.	3850581 1.0e-26 (AC005278) EST gb_N96383 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113745	Strand	-
Start	3125	End	12084
Name	OJ000102_77.0426.C11.o1.np	Method	AAT/NAP
Start	3125	End	11856
GI	6815052	Score	1186

Exons	3125..3249, 3531..3602, 3684..3914, 4182..4683, 4732..4804, 10930..10995, 11345..11856		
GI Descrip.	(AP001080) hypothetical protein [Oryza sativa]		
Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113745	Strand	-
Start	3125	End	12084
Name	OJ000102_77.0426.C11.o2.gs	Method	GENSCAN
Start	6205	End	9282
GI	none	Score	.64
Exons	6205..6363, 6384..6531, 6765..6906, 6962..7768, 7944..8042, 8322..8502, 9005..9150, 9255..9282		
Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113745	Strand	-
Start	3125	End	12084
Name	OJ000102_77.0426.C11.o1.gp	Method	AAT/GAP
Start	11472	End	12084
GI	uC-osflcyp039h04b1	Score	306
Exons	11472..11518, 11915..12084		
GI Descrip.	'1617274/emb|CAA96522| 1.0e-09 (Z72152) AMP-binding protein [Brassica napus]'		
Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o2.np	Method	AAT/NAP
Start	13191	End	18958
GI	6069646	Score	471
Exons	13191..13250, 15166..16043, 18930..18958		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		
Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o4.gs	Method	GENSCAN
Start	14113	End	16728
GI	none	Score	.75
Exons	14113..14669, 14804..14901, 15085..15187, 16174..16292, 16595..16728		
Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o5.tm	Method	TBLASTX:Maize
Start	15149	End	15564
GI	none	Score	70
Exons	15149..15244, 15271..15564, 15299..15418		
Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o2.tw	Method	TBLASTX:Wheat

Start	15457	End	15759
GI	none	Score	59
Exons	15457..15759, 15458..15607		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o2.tm	Method	TBLASTX:Maize
Start	15592	End	16015
GI	none	Score	81
Exons	15592..15939, 15593..15751, 15959..16015		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o5.gs	Method	GENSCAN
Start	18130	End	35241
GI	none	Score	.74
Exons	18130..18228, 18449..18700, 19972..20093, 20179..20257, 20349..20417, 20499..20591, 21979..22017, 22111..22182, 22329..22420, 23298..23405, 23513..23700, 27371..27498, 27903..28006, 28067..28170, 29052..29175, 29320..29438, 29632..29659, 30100..30154, 30841..30934, 31040..31119, 31214..31303, 32569..32655, 32757..32801, 33645..33726, 34521..34611, 35088..35241		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o4.np	Method	AAT/NAP
Start	19644	End	23397
GI	7229683	Score	1289
Exons	19644..19685, 19927..20093, 20179..20257, 20349..20417, 20499..20591, 20673..20739, 20841..20902, 20991..21036, 21621..21666, 21752..21809, 21979..22017, 22111..22182, 22329..22420, 23298..23397		
GI Descrip.	(AF234170) DMC1 protein [Hordeum vulgare]		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o1.ts	Method	TBLASTX:Soybean
Start	19922	End	22440
GI	none	Score	143
Exons	19922..20080, 19924..20085, 19924..20124, 19928..20095, 20180..20260, 20187..20258, 20349..20417, 20350..20424, 20496..20591, 20500..20592, 20670..20738, 20674..20739, 20843..20905, 20844..20903, 20988..21062, 20989..21051, 21620..21667, 21729..21818, 21979..22011, 22111..22182, 22115..22186, 22329..22403, 22329..22430, 22330..22440		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o2.tc	Method	TBLASTX:Cress
Start	20066	End	20876
GI	none	Score	41

Exons	20066..20095, 20180..20260, 20181..20258, 20349..20417, 20353..20418, 20496..20591, 20500..20592, 20698..20739, 20706..20738, 20843..20875, 20844..20876		
Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o7.tm	Method	TBLASTX:Maize
Start	20364	End	21038
GI	none	Score	71
Exons	20364..20417, 20541..20591, 20670..20738, 20843..20905, 20988..21038		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o2.gp	Method	AAT/GAP
Start	26970	End	27494
GI	3767955	Score	843
Exons	26970..27338, 27412..27494		
GI Descrip.	1617274/emb|CAA96522| 1.0e-09 (Z72152) AMP-binding protein [Brassica napus]		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o1.tw	Method	TBLASTX:Wheat
Start	27214	End	27679
GI	none	Score	102
Exons	27214..27339, 27234..27365, 27264..27347, 27407..27499, 27409..27501, 27410..27508, 27560..27679, 27592..27678		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o1.tm	Method	TBLASTX:Maize
Start	27242	End	29923
GI	none	Score	87
Exons	27242..27340, 27243..27365, 27244..27339, 27267..27344, 27407..27499, 27409..27501, 27410..27508, 27592..27678, 27593..27679, 27595..27684, 27597..27683, 27870..27986, 27903..27989, 27904..28020, 27988..28182, 28062..28181, 28874..28969, 28874..28945, 28879..28968, 29040..29180, 29051..29176, 29301..29450, 29307..29438, 29321..29449, 29527..29676, 29527..29661, 29529..29666, 29837..29923, 29857..29922, 29858..29923		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o5.tc	Method	TBLASTX:Cress
Start	27242	End	27681
GI	none	Score	47
Exons	27242..27340, 27243..27365, 27285..27344, 27409..27501, 27413..27517, 27592..27681, 27599..27679		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11

Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o3.ts	Method	TBLASTX:Soybean
Start	27243	End	29181
GI	none	Score	64
Exons	27243..27365, 27265..27339, 27409..27501, 27410..27511, 27592..27681, 27599..27676, 27850..28020, 27891..27989, 28062..28172, 28062..28181, 28066..28182, 28868..28969, 28879..28968, 29040..29180, 29051..29176, 29095..29181		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o5.np	Method	AAT/NAP
Start	27299	End	35208
GI	7437846	Score	2067
Exons	27299..27338, 27412..27498, 27595..27678, 27903..27988, 28067..28170, 28880..28966, 29052..29175, 29320..29438, 29530..29659, 29845..29933, 30066..30154, 30841..30934, 31040..31119, 31214..31303, 32569..32655, 32757..32801, 33228..33304, 33382..33487, 33645..33726, 33815..33886, 34368..34445, 34521..34581, 35088..35208		
GI Descrip.	probable long-chain-fatty-acid--CoA ligase (EC 6.2.1.3) - rape gi|1617274|emb|CAA96522.1| (Z72152) AMP-binding protein [Brassica napus]		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o3.gp	Method	AAT/GAP
Start	27456	End	27681
GI	LIB3434-052-P1-K1-B11	Score	198
Exons	27456..27498, 27595..27681		
GI Descrip.	'1617274/emb|CAA96522| 8.0e-22 (Z72152) AMP-binding protein [Brassica napus]'		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o4.gp	Method	AAT/GAP
Start	27903	End	27988
GI	LIB3434-052-P1-K1-B11	Score	162
Exons	27903..27988		
GI Descrip.	'1617274/emb|CAA96522| 8.0e-22 (Z72152) AMP-binding protein [Brassica napus]'		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o5.gp	Method	AAT/GAP
Start	28681	End	29069
GI	LIB3434-005-P1-K1-E4	Score	744
Exons	28681..29069		
GI Descrip.	'1617274/emb|CAA96522| 2.0e-10 (Z72152) AMP-binding protein [Brassica napus]'		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11

Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o1.tc	Method	TBLASTX:Cress
Start	28874	End	29597
GI	none	Score	110
Exons	28874..28969, 28879..28968, 29030..29176, 29051..29176, 29061..29180, 29301..29447, 29321..29449, 29529..29597, 29529..29597		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o2.ts	Method	TBLASTX:Soybean
Start	29307	End	31310
GI	none	Score	102
Exons	29307..29450, 29320..29451, 29321..29449, 29322..29450, 29503..29676, 29527..29658, 29529..29666, 29808..29930, 29837..29941, 30056..30154, 30069..30200, 30075..30155, 30839..30931, 30841..30933, 31039..31122, 31040..31120, 31214..31306, 31215..31310		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o3.tc	Method	TBLASTX:Cress
Start	29604	End	31310
GI	none	Score	74
Exons	29604..29660, 29840..29908, 30841..30933, 31039..31122, 31040..31120, 31214..31309, 31215..31310		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o4.tm	Method	TBLASTX:Maize
Start	30056	End	31255
GI	none	Score	109
Exons	30056..30154, 30066..30155, 30066..30200, 30067..30156, 30839..30868, 30840..30935, 30841..30933, 31031..31120, 31037..31120, 31039..31122, 31039..31122, 31210..31254, 31214..31255		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o3.tm	Method	TBLASTX:Maize
Start	32564	End	34580
GI	none	Score	101
Exons	32564..32656, 32568..32660, 32569..32664, 32570..32668, 32749..32802, 32754..32828, 32754..32810, 33224..33301, 33225..33305, 33229..33306, 33380..33490, 33389..33487, 33540..33743, 33644..33724, 33645..33725, 33745..33885, 33807..33884, 33814..33885, 33815..33889, 34362..34445, 34370..34447, 34377..34460, 34378..34446, 34520..34579, 34530..34580		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-

Start	14113	End	35241
Name	OJ000102_77.0426.C11.o4.tc	Method	TBLASTX:Cress
Start	32569	End	34577
GI	none	Score	71
Exons	32569..32664, 32754..32831, 33225..33305, 33247..33306, 33380..33487, 33381..33488, 33384..33503, 33648..33725, 33649..33726, 33654..33731, 33670..33729, 33814..33885, 33815..33883, 34368..34448, 34370..34447, 34520..34576, 34530..34577		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o6.gp	Method	AAT/GAP
Start	33205	End	33478
GI	uC-osrocyp010a04b1	Score	264
Exons	33205..33304, 33382..33478		
GI Descrip.	'1617274/emb|CAA96522| 6.0e-33 (Z72152) AMP-binding protein [Brassica napus]'		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113746	Strand	-
Start	14113	End	35241
Name	OJ000102_77.0426.C11.o7.gp	Method	AAT/GAP
Start	34363	End	34587
GI	uC-osflm202110c11b1	Score	202
Exons	34363..34445, 34521..34587		
GI Descrip.	'1617274/emb|CAA96522| 3.0e-28 (Z72152) AMP-binding protein [Brassica napus]'		

Seq. No.	54207	Seq. ID	OJ000102_77.0426.C11
Gene No.	113747	Strand	
Start	37085	End	38180
Name	OJ000102_77.0426.C11.o6.tm	Method	TBLASTX:Maize
Start	37085	End	38180
GI	none	Score	94
Exons	37085..37147, 37246..37335, 37257..37337, 37260..37367, 37568..37687, 37571..37687, 37572..37691, 37582..37704, 38095..38178, 38096..38179, 38096..38179, 38097..38180		

Seq. No.	54208	Seq. ID	OJ000102_77.0426.C12
Gene No.	113748	Strand	+
Start	1	End	10928
Name	OJ000102_77.0426.C12.o3.np	Method	AAT/NAP
Start	1	End	10432
GI	3980411	Score	59
Exons	1..20, 3315..3480, 7770..7930, 10261..10432		
GI Descrip.	(AC004561) putative proline-rich protein [Arabidopsis thaliana]		

Seq. No.	54208	Seq. ID	OJ000102_77.0426.C12
Gene No.	113748	Strand	+
Start	1	End	10928
Name	OJ000102_77.0426.C12.o1.tm	Method	TBLASTX:Maize
Start	578	End	992
GI	none	Score	151
Exons	578..754, 609..746, 627..758, 629..748, 829..969, 829..969, 831..974, 831..992, 954..992		

Seq. No.	54208	Seq. ID	OJ000102_77.0426.C12
Gene No.	113748	Strand	+
Start	1	End	10928
Name	OJ000102_77.0426.C12.o1.gp	Method	AAT/GAP
Start	641	End	948
GI	67687_1.R1084	Score	276
Exons	641..748, 832..948		
GI Descrip.	'1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	54208	Seq. ID	OJ000102_77.0426.C12
Gene No.	113748	Strand	+
Start	1	End	10928
Name	OJ000102_77.0426.C12.o1.gs	Method	GENSCAN
Start	647	End	2190
GI	none	Score	.73
Exons	647..748, 2149..2190		

Seq. No.	54208	Seq. ID	OJ000102_77.0426.C12
Gene No.	113748	Strand	+
Start	1	End	10928
Name	OJ000102_77.0426.C12.o1.np	Method	AAT/NAP
Start	658	End	1934
GI	3850581	Score	51
Exons	658..748, 1905..1934		
GI Descrip.	(AC005278) EST gb|N96383 comes from this gene. [Arabidopsis thaliana]		

Seq. No.	54208	Seq. ID	OJ000102_77.0426.C12
Gene No.	113748	Strand	+
Start	1	End	10928
Name	OJ000102_77.0426.C12.o2.gs	Method	GENSCAN
Start	3187	End	5145
GI	none	Score	.82
Exons	3187..3497, 4929..5145		

Seq. No.	54208	Seq. ID	OJ000102_77.0426.C12
Gene No.	113748	Strand	+
Start	1	End	10928
Name	OJ000102_77.0426.C12.o2.np	Method	AAT/NAP
Start	3223	End	7137
GI	7489383	Score	714
Exons	3223..3497, 4593..4623, 5359..5511, 6312..6518, 6919..7137		
GI Descrip.	jacalin homolog - barley gi|1167955|gb|AAA87042.1| (U43497) putative 32.7 kDa jasmonate-induced protein [Hordeum vulgare] gi|2465428|gb|AAB72097.1| (AF021257) 32 kDa protein [Hordeum vulgare]		

Seq. No.	54208	Seq. ID	OJ000102_77.0426.C12
Gene No.	113748	Strand	+
Start	1	End	10928
Name	OJ000102_77.0426.C12.o2.tm	Method	TBLASTX:Maize
Start	3250	End	7035
GI	none	Score	119
Exons	3250..3414, 3418..3501, 5326..5517, 5347..5499, 5364..5510, 6318..6380, 6324..6371, 6380..6481, 6381..6485, 6910..6978,		

6915..6962, 7015..7035

Seq. No.	54208	Seq. ID	OJ000102_77.0426.C12
Gene No.	113748	Strand	+
Start	1	End	10928
Name	OJ000102_77.0426.C12.o3.gs	Method	GENSCAN
Start	5413	End	7134
GI	none	Score	.44
Exons	5413..5565, 6913..7134		

Seq. No.	54208	Seq. ID	OJ000102_77.0426.C12
Gene No.	113748	Strand	+
Start	1	End	10928
Name	OJ000102_77.0426.C12.o4.gs	Method	GENSCAN
Start	7464	End	10928
GI	none	Score	.47
Exons	7464..7582, 7682..7737, 7799..7882, 8704..8819, 9972..10111, 10150..10471, 10598..10637, 10711..10928		

Seq. No.	54209	Seq. ID	OJ000102_77.0426.C13
Gene No.	113749	Strand	+
Start	227	End	285
Name	OJ000102_77.0426.C13.o1.gp	Method	AAT/GAP
Start	227	End	285
GI	2312838	Score	64
Exons	227..285		
GI Descrip.	1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence		

Seq. No.	54209	Seq. ID	OJ000102_77.0426.C13
Gene No.	113750	Strand	+
Start	2903	End	10494
Name	OJ000102_77.0426.C13.o2.gs	Method	GENSCAN
Start	2903	End	10451
GI	none	Score	.66
Exons	2903..3100, 3641..3759, 3952..4061, 5821..5972, 6080..6177, 6757..7044, 8821..8933, 9095..9108, 9619..9694, 9798..10451		

Seq. No.	54209	Seq. ID	OJ000102_77.0426.C13
Gene No.	113750	Strand	+
Start	2903	End	10494
Name	OJ000102_77.0426.C13.o3.gp	Method	AAT/GAP
Start	8933	End	10227
GI	26615_1.R1084	Score	1370
Exons	8933..9168, 9298..9392, 9619..9694, 9798..10227		
GI Descrip.	'4097573 2.0e-10 (U64917) GMFP7 [Glycine max]'		

Seq. No.	54209	Seq. ID	OJ000102_77.0426.C13
Gene No.	113750	Strand	+
Start	2903	End	10494
Name	OJ000102_77.0426.C13.o1.np	Method	AAT/NAP
Start	9363	End	10494
GI	6862917	Score	422
Exons	9363..9392, 9619..9694, 9798..10494		
GI Descrip.	(AC018907) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54209	Seq. ID	OJ000102_77.0426.C13

Gene No.	113750	Strand	+
Start	2903	End	10494
Name	OJ000102_77.0426.C13.o1.tc	Method	TBLASTX:Cress
Start	9609	End	9928
GI	none	Score	119
Exons	9609..9695, 9616..9696, 9793..9927, 9797..9928		

Seq. No.	54209	Seq. ID	OJ000102_77.0426.C13
Gene No.	113750	Strand	+
Start	2903	End	10494
Name	OJ000102_77.0426.C13.o1.ts	Method	TBLASTX:Soybean
Start	9613	End	9931
GI	none	Score	127
Exons	9613..9696, 9621..9695, 9793..9927, 9797..9931		

Seq. No.	54209	Seq. ID	OJ000102_77.0426.C13
Gene No.	113750	Strand	+
Start	2903	End	10494
Name	OJ000102_77.0426.C13.o1.tm	Method	TBLASTX:Maize
Start	9616	End	10010
GI	none	Score	122
Exons	9616..9696, 9618..9695, 9793..9930, 9797..9931, 9797..9934, 9960..10010, 9972..10010		

Seq. No.	54209	Seq. ID	OJ000102_77.0426.C13
Gene No.	113750	Strand	+
Start	2903	End	10494
Name	OJ000102_77.0426.C13.o1.tw	Method	TBLASTX:Wheat
Start	9664	End	10025
GI	none	Score	49
Exons	9664..9696, 9666..9695, 9793..9933, 9797..9934, 9943..9963, 9972..10025, 9975..10010		

Seq. No.	54210	Seq. ID	OJ000102_77.0426.C14
Gene No.	113751	Strand	+
Start	26	End	2039
Name	OJ000102_77.0426.C14.o1.gs	Method	GENSCAN
Start	26	End	2039
GI	none	Score	.54
Exons	26..555, 569..675, 802..852, 1904..2039		

Seq. No.	54210	Seq. ID	OJ000102_77.0426.C14
Gene No.	113752	Strand	-
Start	643	End	1007
Name	OJ000102_77.0426.C14.o1.gp	Method	AAT/GAP
Start	643	End	1007
GI	46068_1.R1084	Score	616
Exons	643..1007		
GI Descrip.	'1420932/gb|U61383|ORU61383 7.0e-21 Oryza rufipogon 4-coumarate-CoA ligase gene, intron 1, partial sequence'		

Seq. No.	54211	Seq. ID	OJ000102_77.0426.C15
Gene No.	113753	Strand	-
Start	482	End	1187
Name	OJ000102_77.0426.C15.o1.np	Method	AAT/NAP
Start	482	End	1187
GI	6069646	Score	111

Exons	482..684, 1158..1187
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]

Seq. No.	54212	Seq. ID	OJ000102_76.0426.C7
Gene No.	113754	Strand	-
Start	1	End	713
Name	OJ000102_76.0426.C7.o1.np	Method	AAT/NAP
Start	1	End	713
GI	5922620	Score	159
Exons	1..46, 170..381, 643..713		
GI Descrip.	(AP000492) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6016853|dbj|BAA85196.1| (AP000570) EST D15357(C0514) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54213	Seq. ID	OJ000102_76.0426.C8
Gene No.	113755	Strand	+
Start	489	End	801
Name	OJ000102_76.0426.C8.o1.np	Method	AAT/NAP
Start	489	End	801
GI	2498930	Score	168
Exons	489..552, 720..801		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi|1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113756	Strand	+
Start	16845	End	23214
Name	OJ000102_76.0426.C9.o2.np	Method	AAT/NAP
Start	16845	End	23211
GI	7228457	Score	3033
Exons	16845..16966, 17180..17270, 18393..19935, 19990..21635, 21702..23211		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113756	Strand	+
Start	16845	End	23214
Name	OJ000102_76.0426.C9.o3.gs	Method	GENSCAN
Start	20311	End	23214
GI	none	Score	.73
Exons	20311..20532, 20589..22301, 22436..22819, 22828..23214		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113757	Strand	+
Start	27291	End	29054
Name	OJ000102_76.0426.C9.o5.np	Method	AAT/NAP
Start	27291	End	29054
GI	7523517	Score	260
Exons	27291..27584, 27735..27789, 29017..29054		

GI Descrip. (AP001633) hypothetical protein [Oryza sativa]

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113758	Strand	+
Start	32990	End	33976
Name	OJ000102_76.0426.C9.o6.gs	Method	GENSCAN
Start	32990	End	33976
GI	none	Score	.51
Exons	32990..33026, 33552..33976		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113759	Strand	+
Start	52209	End	54476
Name	OJ000102_76.0426.C9.o10.gs	Method	GENSCAN
Start	52209	End	54476
GI	none	Score	.52
Exons	52209..52218, 53926..54104, 54369..54476		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113760	Strand	-
Start	560	End	13289
Name	OJ000102_76.0426.C9.o1.gp	Method	AAT/GAP
Start	548	End	5149
GI	23078_1.R1084	Score	1429
Exons	548..724, 1796..2002, 2100..2234, 2313..2444, 4310..4427, 5102..5149		
GI Descrip.	'4587615/gb|AAD25843.1|AC006951_22 1.0e-111 (AC006951) putative acyl-CoA synthetase [Arabidopsis thaliana] >gi_4689469_gb_AAD27905.1_AC007213_3 (AC007213) putative acyl-CoA synthetase [Arabidopsis thaliana]'		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113760	Strand	-
Start	560	End	13289
Name	OJ000102_76.0426.C9.o1.gs	Method	GENSCAN
Start	560	End	7265
GI	none	Score	.8
Exons	560..724, 1796..2002, 2100..2234, 2313..2444, 4310..4449, 5181..5331, 6901..7074, 7158..7265		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113760	Strand	-
Start	560	End	13289
Name	OJ000102_76.0426.C9.o1.np	Method	AAT/NAP
Start	563	End	11848
GI	4587615	Score	2282
Exons	563..724, 1796..2002, 2100..2234, 2313..2444, 4310..4427, 5102..5331, 6901..7074, 7158..7289, 8302..8568, 11172..11252, 11338..11848		
GI Descrip.	(AC006951) putative acyl-CoA synthetase [Arabidopsis thaliana]		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113760	Strand	-
Start	560	End	13289
Name	OJ000102_76.0426.C9.o2.gp	Method	AAT/GAP
Start	5159	End	11565
GI	14538_1.R1084	Score	1994

Exons	5159..5331, 6901..7074, 7158..7289, 8302..8568, 11172..11252, 11338..11565		
GI Descrip.	'4680495/gb|AAD27675.1|AF119222_7 3.0e-32 (AF119222) receptor kinase-like protein [Oryza sativa]'		
Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113760	Strand	-
Start	560	End	13289
Name	OJ000102_76.0426.C9.o3.gp	Method	AAT/GAP
Start	11653	End	13289
GI	LIB3474-002-P1-K1-H3	Score	876
Exons	11653..11918, 13108..13289		
GI Descrip.	'5441872/dbj|AP000366.1|AP000366 2.0e-21 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig a)'		
Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113761	Strand	-
Start	23996	End	27330
Name	OJ000102_76.0426.C9.o4.gs	Method	GENSCAN
Start	23996	End	27330
GI	none	Score	.67
Exons	23996..24327, 24426..24571, 24700..25365, 25528..25586, 25657..25851, 25919..26043, 26246..26378, 26395..26426, 26744..26871, 27266..27330		
Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113761	Strand	-
Start	23996	End	27330
Name	OJ000102_76.0426.C9.o3.np	Method	AAT/NAP
Start	24699	End	26885
GI	6721561	Score	1087
Exons	24699..25460, 25528..25586, 25657..25851, 26817..26885		
GI Descrip.	(AP001073) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa] gi|6815086|dbj|BAA90372.1| (AP001081) EST AU082058(C12976) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		
Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113761	Strand	-
Start	23996	End	27330
Name	OJ000102_76.0426.C9.o4.np	Method	AAT/NAP
Start	25200	End	26843
GI	6721558	Score	268
Exons	25200..25427, 25919..26043, 26744..26843		
GI Descrip.	(AP001073) hypothetical protein [Oryza sativa] gi|6815083|dbj|BAA90369.1| (AP001081) hypothetical protein [Oryza sativa]		
Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o1.ts	Method	TBLASTX:Soybean
Start	526	End	11523
GI	none	Score	70
Exons	526..726, 559..726, 560..727, 566..727, 579..734, 1793..2005, 1794..1976, 1838..1978, 1924..2016, 2097..2243, 2098..2235,		

2304..2447, 2305..2445, 4288..4413, 4296..4475, 4307..4438,
5101..5334, 5102..5335, 6895..7077, 6899..7078, 7146..7298,
7149..7289, 8300..8428, 8302..8571, 8306..8428, 8501..8569,
8645..8692, 11166..11255, 11173..11259, 11306..11440,
11334..11441, 11338..11442, 11345..11443, 11428..11511,
11443..11523, 11447..11518

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o1.tm	Method	TBLASTX:Maize
Start	555	End	11890
GI	none	Score	224

Exons 555..725, 558..725, 560..727, 560..727, 1796..2005, 1797..2003,
1832..2005, 2092..2235, 2096..2251, 2097..2237, 2099..2242,
2304..2447, 2305..2445, 2384..2446, 4293..4430, 4296..4436,
4307..4438, 4310..4477, 5101..5334, 5102..5353, 6898..7098,
6899..7081, 7143..7289, 7158..7292, 8300..8569, 8301..8582,
8302..8571, 11166..11267, 11167..11256, 11336..11845,
11337..11666, 11338..11883, 11339..11890

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o1.tc	Method	TBLASTX:Cress
Start	561	End	2409
GI	none	Score	184

Exons 561..725, 566..727, 570..725, 1796..2011, 1803..2012,
2097..2237, 2098..2235, 2117..2242, 2298..2408, 2304..2408,
2305..2409

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o3.tc	Method	TBLASTX:Cress
Start	5137	End	7305
GI	none	Score	114

Exons 5137..5334, 5138..5335, 6898..7098, 6899..7075, 7158..7289,
7189..7305

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o7.tm	Method	TBLASTX:Maize
Start	8671	End	9025
GI	none	Score	302

Exons 8671..8838, 8672..8968, 8871..8915, 8933..9025, 8935..9021

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o2.tm	Method	TBLASTX:Maize
Start	9028	End	9625
GI	none	Score	514

Exons 9028..9621, 9029..9625

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9

Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o8.tm	Method	TBLASTX:Maize
Start	9631	End	9888
GI	none	Score	223
Exons	9631..9888, 9645..9875		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o3.tm	Method	TBLASTX:Maize
Start	10001	End	10669
GI	none	Score	500
Exons	10001..10231, 10002..10292, 10003..10560, 10057..10368, 10350..10472, 10592..10669		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o6.tw	Method	TBLASTX:Wheat
Start	10104	End	10455
GI	none	Score	248
Exons	10104..10199, 10108..10293, 10381..10455		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o2.tc	Method	TBLASTX:Cress
Start	11178	End	11806
GI	none	Score	202
Exons	11178..11240, 11356..11775, 11357..11776, 11777..11806		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o4.ts	Method	TBLASTX:Soybean
Start	11525	End	11844
GI	none	Score	134
Exons	11525..11719, 11527..11721, 11704..11844		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o7.tw	Method	TBLASTX:Wheat
Start	18439	End	18837
GI	none	Score	237
Exons	18439..18837, 18453..18491, 18564..18707		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o3.tw	Method	TBLASTX:Wheat
Start	19420	End	19875
GI	none	Score	146
Exons	19420..19602, 19639..19875, 19641..19757		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9

Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o1.tw	Method	TBLASTX:Wheat
Start	20067	End	20523
GI	none	Score	552
Exons	20067..20522, 20068..20523		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o5.ts	Method	TBLASTX:Soybean
Start	20107	End	20472
GI	none	Score	109
Exons	20107..20331, 20338..20472		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o4.tm	Method	TBLASTX:Maize
Start	20197	End	20553
GI	none	Score	415
Exons	20197..20553, 20232..20552		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o5.tm	Method	TBLASTX:Maize
Start	20580	End	20963
GI	none	Score	329
Exons	20580..20963, 20615..20665, 20747..20962		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o2.tw	Method	TBLASTX:Wheat
Start	20637	End	21061
GI	none	Score	464
Exons	20637..21059, 20682..21026, 20747..21061		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o2.ts	Method	TBLASTX:Soybean
Start	20691	End	21116
GI	none	Score	315
Exons	20691..21116, 20750..20875		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o5.tw	Method	TBLASTX:Wheat
Start	21206	End	21614
GI	none	Score	206
Exons	21206..21433, 21207..21431, 21441..21614, 21549..21611		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-

Start	33811	End	56179
Name	OJ000102_76.0426.C9.o3.ts	Method	TBLASTX:Soybean
Start	21330	End	21713
GI	none	Score	78
Exons	21330..21455, 21462..21713		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o9.tw	Method	TBLASTX:Wheat
Start	21618	End	21911
GI	none	Score	199
Exons	21618..21911, 21647..21712, 21752..21793		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o4.tw	Method	TBLASTX:Wheat
Start	22116	End	22498
GI	none	Score	280
Exons	22116..22403, 22124..22312, 22349..22402, 22393..22497, 22394..22498		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o6.tm	Method	TBLASTX:Maize
Start	22116	End	22403
GI	none	Score	322
Exons	22116..22403, 22133..22402		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o8.tw	Method	TBLASTX:Wheat
Start	22505	End	22768
GI	none	Score	204
Exons	22505..22693, 22526..22768, 22531..22731		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o10.tw	Method	TBLASTX:Wheat
Start	22772	End	23124
GI	none	Score	62
Exons	22772..22831, 22804..23049, 23074..23124		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o9.tm	Method	TBLASTX:Maize
Start	22900	End	23166
GI	none	Score	142
Exons	22900..23082, 22977..23081, 23076..23132, 23083..23166		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-

Start	33811	End	56179
Name	OJ000102_76.0426.C9.o7.np	Method	AAT/NAP
Start	33811	End	55442
GI	6523547	Score	343
Exons	33811..33884, 34563..34601, 37748..37970, 38734..38822, 41746..42218, 54180..54244, 55141..55442		
GI Descrip.	(AJ242540) hydroxyproline-rich glycoprotein DZ-HRGP [Volvox carteri f. nagariensis]		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o8.gs	Method	GENSCAN
Start	37495	End	38325
GI	none	Score	.76
Exons	37495..38325		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o6.np	Method	AAT/NAP
Start	37525	End	39337
GI	7489208	Score	188
Exons	37525..37770, 37876..38254, 39217..39337		
GI Descrip.	Tsi1 protein - common tobacco gi|3065895|gb|AAC14323.1| (AF058827) TSI1 [Nicotiana tabacum]		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o4.gp	Method	AAT/GAP
Start	39722	End	39878
GI	286806	Score	251
Exons	39722..39878		
GI Descrip.	5441872/dbj|AP000366.1|AP000366 2.0e-21 Oryza sativa genomic DNA, chromosome 2, clone:P0437H03 (contig a)		

Seq. No.	54214	Seq. ID	OJ000102_76.0426.C9
Gene No.	113762	Strand	-
Start	33811	End	56179
Name	OJ000102_76.0426.C9.o11.gs	Method	GENSCAN
Start	55162	End	56179
GI	none	Score	.84
Exons	55162..55332, 56053..56106, 56126..56179		

Seq. No.	54215	Seq. ID	OJ000102_76.0426.C10
Gene No.	113763	Strand	+
Start	688	End	798
Name	OJ000102_76.0426.C10.o1.gs	Method	GENSCAN
Start	688	End	798
GI	none	Score	.5
Exons	688..798		

Seq. No.	54216	Seq. ID	OJ000102_76.0426.C12
Gene No.	113764	Strand	+
Start	202	End	541
Name	OJ000102_76.0426.C12.o1.gs	Method	GENSCAN

Start	202	End	541
GI	none	Score	.78
Exons	202..207, 440..541		

Seq. No.	54216	Seq. ID	OJ000102_76.0426.C12
Gene No.	113765	Strand	+
Start	1747	End	1833
Name	OJ000102_76.0426.C12.o1.np	Method	AAT/NAP
Start	1747	End	1833
GI	6630699	Score	79
Exons	1747..1833		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	54216	Seq. ID	OJ000102_76.0426.C12
Gene No.	113766	Strand	+
Start	1969	End	2201
Name	OJ000102_76.0426.C12.o2.np	Method	AAT/NAP
Start	1969	End	2201
GI	6539570	Score	156
Exons	1969..2201		
GI Descrip.	(AP000836) hypothetical protein [Oryza sativa]		

Seq. No.	54216	Seq. ID	OJ000102_76.0426.C12
Gene No.	113767	Strand	-
Start	1755	End	2891
Name	OJ000102_76.0426.C12.o2.gs	Method	GENSCAN
Start	1755	End	2891
GI	none	Score	.47
Exons	1755..1827, 2532..2669, 2722..2891		

Seq. No.	54217	Seq. ID	OJ000102_76.0426.C13
Gene No.	113768	Strand	+
Start	86	End	478
Name	OJ000102_76.0426.C13.o1.gs	Method	GENSCAN
Start	86	End	478
GI	none	Score	.76
Exons	86..478		

Seq. No.	54217	Seq. ID	OJ000102_76.0426.C13
Gene No.	113769	Strand	-
Start	1	End	2037
Name	OJ000102_76.0426.C13.o1.np	Method	AAT/NAP
Start	1	End	2022
GI	7523517	Score	315
Exons	1..32, 1506..1579, 1724..2022		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	54217	Seq. ID	OJ000102_76.0426.C13
Gene No.	113769	Strand	-
Start	1	End	2037
Name	OJ000102_76.0426.C13.o2.gs	Method	GENSCAN
Start	1267	End	2037
GI	none	Score	.85
Exons	1267..1579, 1724..2037		

Seq. No.	54217	Seq. ID	OJ000102_76.0426.C13
Gene No.	113770	Strand	-
Start	4592	End	4711
Name	OJ000102_76.0426.C13.o3.gs	Method	GENSCAN
Start	4592	End	4711
GI	none	Score	1
Exons	4592..4711		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113771	Strand	+
Start	341	End	3492
Name	OJ000102_76.0426.C14.o1.gs	Method	GENSCAN
Start	341	End	3492
GI	none	Score	.5
Exons	341..538, 1066..1182, 1361..1540, 1673..1807, 3433..3492		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113772	Strand	+
Start	20084	End	37133
Name	OJ000102_76.0426.C14.o5.gs	Method	GENSCAN
Start	20084	End	36020
GI	none	Score	.43
Exons	20084..20130, 20187..20337, 20509..20710, 21076..21195, 23598..23703, 24146..24560, 25142..25348, 25372..25426, 28913..28937, 29840..29937, 30582..30705, 35389..36020		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113772	Strand	+
Start	20084	End	37133
Name	OJ000102_76.0426.C14.o2.gp	Method	AAT/GAP
Start	22886	End	24318
GI	none	Score	908
Exons	22886..23044, 23987..24318		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113772	Strand	+
Start	20084	End	37133
Name	OJ000102_76.0426.C14.o5.np	Method	AAT/NAP
Start	23882	End	30832
GI	6714366	Score	1802
Exons	23882..23936, 24160..24560, 25142..25426, 29611..29739, 29840..29937, 30022..30832		
GI Descrip.	(AC012562) unknown protein [Arabidopsis thaliana]		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113772	Strand	+
Start	20084	End	37133
Name	OJ000102_76.0426.C14.o4.gp	Method	AAT/GAP
Start	30036	End	31071
GI	none	Score	1960
Exons	30036..31071		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113772	Strand	+
Start	20084	End	37133
Name	OJ000102_76.0426.C14.o5.gp	Method	AAT/GAP
Start	35349	End	35851

GI	none	Score	915
Exons	35349..35851		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113772	Strand	+
Start	20084	End	37133
Name	OJ000102_76.0426.C14.o6.np	Method	AAT/NAP
Start	35465	End	37133
GI	7340670	Score	270
Exons	35465..35599, 35654..36020, 37056..37133		
GI Descrip.	(AL162508) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113773	Strand	-
Start	1287	End	2646
Name	OJ000102_76.0426.C14.o1.np	Method	AAT/NAP
Start	1287	End	2646
GI	6498441	Score	201
Exons	1287..1668, 2614..2646		
GI Descrip.	(AP000815) EST C72786(E2258) corresponds to a region of the predicted gene.; Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1. (AF098806) [Oryza sativa]		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113774	Strand	-
Start	6598	End	8626
Name	OJ000102_76.0426.C14.o2.gs	Method	GENSCAN
Start	6598	End	8626
GI	none	Score	.6
Exons	6598..7339, 7398..7932, 8257..8626		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113775	Strand	-
Start	9107	End	19951
Name	OJ000102_76.0426.C14.o1.gp	Method	AAT/GAP
Start	9107	End	9502
GI	5003045	Score	737
Exons	9107..9502		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113775	Strand	-
Start	9107	End	19951
Name	OJ000102_76.0426.C14.o3.gs	Method	GENSCAN
Start	9370	End	14538
GI	none	Score	.52
Exons	9370..9751, 11919..12167, 13885..14090, 14197..14333, 14457..14538		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113775	Strand	-
Start	9107	End	19951
Name	OJ000102_76.0426.C14.o2.np	Method	AAT/NAP
Start	9373	End	12175
GI	4895184	Score	1080
Exons	9373..9751, 10385..10510, 10931..11072, 11836..12175		
GI Descrip.	(AC007661) unknown protein [Arabidopsis thaliana]		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113775	Strand	-
Start	9107	End	19951
Name	OJ000102_76.0426.C14.o3.np	Method	AAT/NAP
Start	13733	End	18015
GI	7340881	Score	269
Exons	13733..13879, 14032..14301, 15455..15520, 15624..15746, 17114..17369, 17504..17786, 17931..18015		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113775	Strand	-
Start	9107	End	19951
Name	OJ000102_76.0426.C14.o4.gs	Method	GENSCAN
Start	17288	End	19951
GI	none	Score	.65
Exons	17288..17409, 17490..17570, 17663..17796, 18599..19024, 19115..19341, 19363..19531, 19694..19799, 19867..19951		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113776	Strand	-
Start	19868	End	21913
Name	OJ000102_76.0426.C14.o4.np	Method	AAT/NAP
Start	19868	End	21913
GI	7523506	Score	164
Exons	19868..19938, 20212..20502, 21845..21913		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113777	Strand	-
Start	28141	End	30541
Name	OJ000102_76.0426.C14.o3.tm	Method	TBLASTX:Maize
Start	9319	End	9660
GI	none	Score	208
Exons	9319..9660, 9369..9566, 9370..9660		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113777	Strand	-
Start	28141	End	30541
Name	OJ000102_76.0426.C14.o1.ts	Method	TBLASTX:Soybean
Start	9376	End	9761
GI	none	Score	47
Exons	9376..9426, 9380..9427, 9424..9750, 9479..9751, 9633..9761		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113777	Strand	-
Start	28141	End	30541
Name	OJ000102_76.0426.C14.o3.tc	Method	TBLASTX:Cress
Start	9376	End	9643
GI	none	Score	49
Exons	9376..9426, 9380..9427, 9424..9582, 9485..9577, 9598..9642, 9599..9643		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113777	Strand	-
Start	28141	End	30541
Name	OJ000102_76.0426.C14.o2.tw	Method	TBLASTX:Wheat

Start	9599	End	11077
GI	none	Score	213
Exons	9599..9760, 9601..9750, 9630..9767, 10376..10483, 10378..10509, 10383..10511, 10384..10509, 10928..11077, 10928..11074, 10933..11076		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113777	Strand	-
Start	28141	End	30541
Name	OJ000102_76.0426.C14.o7.tm	Method	TBLASTX:Maize
Start	9661	End	10520
GI	none	Score	119
Exons	9661..9759, 9671..9751, 10373..10483, 10378..10509, 10383..10520, 10384..10509		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113777	Strand	-
Start	28141	End	30541
Name	OJ000102_76.0426.C14.o2.ts	Method	TBLASTX:Soybean
Start	10385	End	12178
GI	none	Score	99
Exons	10385..10480, 10385..10480, 10387..10482, 10413..10487, 10925..11074, 10933..11070, 11840..12178, 11840..12169		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113777	Strand	-
Start	28141	End	30541
Name	OJ000102_76.0426.C14.o2.tm	Method	TBLASTX:Maize
Start	10934	End	13955
GI	none	Score	95
Exons	10934..10999, 10936..11010, 10936..11010, 10937..11011, 11005..11073, 11016..11075, 11837..12169, 11840..12169, 13899..13955		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113777	Strand	-
Start	28141	End	30541
Name	OJ000102_76.0426.C14.o1.tc	Method	TBLASTX:Cress
Start	11834	End	12205
GI	none	Score	213
Exons	11834..12205, 11834..12169, 11839..12180		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113777	Strand	-
Start	28141	End	30541
Name	OJ000102_76.0426.C14.o4.tm	Method	TBLASTX:Maize
Start	24157	End	24559
GI	none	Score	354
Exons	24157..24282, 24294..24557, 24294..24557, 24296..24559, 24296..24559		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113777	Strand	-
Start	28141	End	30541
Name	OJ000102_76.0426.C14.o4.ts	Method	TBLASTX:Soybean
Start	25139	End	25371
GI	none	Score	245

Exons	25139..25369, 25141..25233, 25154..25357, 25219..25371, 25291..25371		
Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113777	Strand	-
Start	28141	End	30541
Name	OJ000102_76.0426.C14.o6.tm	Method	TBLASTX:Maize
Start	25139	End	29741
GI	none	Score	79
Exons	25139..25198, 25141..25200, 25154..25270, 25178..25234, 25208..25426, 25222..25425, 25292..25444, 25380..25445, 29602..29739, 29602..29739, 29607..29741, 29655..29741		
Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113777	Strand	-
Start	28141	End	30541
Name	OJ000102_76.0426.C14.o1.tw	Method	TBLASTX:Wheat
Start	25246	End	30066
GI	none	Score	245
Exons	25246..25425, 25250..25426, 25292..25444, 29602..29739, 29602..29739, 29607..29741, 29652..29741, 29797..29934, 29837..29935, 29839..29940, 30015..30053, 30019..30066, 30022..30063		
Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113777	Strand	-
Start	28141	End	30541
Name	OJ000102_76.0426.C14.o3.ts	Method	TBLASTX:Soybean
Start	25372	End	30138
GI	none	Score	86
Exons	25372..25422, 25373..25444, 29602..29739, 29610..29747, 29661..29747, 29822..29938, 29837..29926, 30019..30138, 30020..30136		
Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113777	Strand	-
Start	28141	End	30541
Name	OJ000102_76.0426.C14.o3.gp	Method	AAT/GAP
Start	28141	End	28617
GI	uC-osroM202020e03b1	Score	827
Exons	28141..28463, 28494..28617		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 2.0e-10 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		
Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113777	Strand	-
Start	28141	End	30541
Name	OJ000102_76.0426.C14.o2.tc	Method	TBLASTX:Cress
Start	29674	End	30454
GI	none	Score	97
Exons	29674..29739, 29676..29741, 29682..29747, 29837..29926, 30019..30306, 30020..30307, 30410..30454		
Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113777	Strand	-
Start	28141	End	30541
Name	OJ000102_76.0426.C14.o1.tm	Method	TBLASTX:Maize

Start	29839	End	30520
GI	none	Score	131
Exons	29839..29937, 29840..29935, 29846..29938, 29848..29937, 30019..30402, 30026..30520, 30095..30520		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113777	Strand	-
Start	28141	End	30541
Name	OJ000102_76.0426.C14.o6.ts	Method	TBLASTX:Soybean
Start	30392	End	30541
GI	none	Score	192
Exons	30392..30541, 30395..30526		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113778	Strand	
Start	30587	End	30899
Name	OJ000102_76.0426.C14.o5.tm	Method	TBLASTX:Maize
Start	30587	End	30899
GI	none	Score	384
Exons	30587..30838, 30595..30846, 30596..30835, 30597..30836, 30866..30895, 30867..30899, 30867..30896		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113778	Strand	
Start	30587	End	30899
Name	OJ000102_76.0426.C14.o4.tc	Method	TBLASTX:Cress
Start	30596	End	30834
GI	none	Score	229
Exons	30596..30829, 30604..30834		

Seq. No.	54218	Seq. ID	OJ000102_76.0426.C14
Gene No.	113778	Strand	
Start	30587	End	30899
Name	OJ000102_76.0426.C14.o5.ts	Method	TBLASTX:Soybean
Start	30647	End	30834
GI	none	Score	241
Exons	30647..30829, 30652..30834		

Seq. No.	54219	Seq. ID	OJ000102_76.0426.C15
Gene No.	113779	Strand	+
Start	1	End	874
Name	OJ000102_76.0426.C15.o1.np	Method	AAT/NAP
Start	1	End	154
GI	7340670	Score	178
Exons	1..154		
GI Descrip.	(AL162508) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54219	Seq. ID	OJ000102_76.0426.C15
Gene No.	113779	Strand	+
Start	1	End	874
Name	OJ000102_76.0426.C15.o1.tm	Method	TBLASTX:Maize
Start	1	End	874
GI	none	Score	153
Exons	1..165, 2..166, 2..160, 784..873, 784..873, 785..874		

Seq. No.	54219	Seq. ID	OJ000102_76.0426.C15
Gene No.	113779	Strand	+

Start	1	End	874
Name	OJ000102_76.0426.C15.o1.ts	Method	TBLASTX:Soybean
Start	1	End	167
GI	none	Score	240
Exons	1..165, 2..166, 5..166, 39..167		

Seq. No.	54220	Seq. ID	OJ000102_79.0426.C1
Gene No.	113780	Strand	-
Start	1	End	13007
Name	OJ000102_79.0426.C1.o1.np	Method	AAT/NAP
Start	1	End	13007
GI	7489454	Score	3187
Exons	1..69, 822..961, 1272..1502, 2133..2734, 2774..3180, 3217..4874, 10428..10678, 12643..13007		
GI Descrip.	bacterial blight-resistance protein Xa1 - rice gi|2943742|dbj|BAA25068.1| (AB002266) XA1 [Oryza sativa]		

Seq. No.	54220	Seq. ID	OJ000102_79.0426.C1
Gene No.	113780	Strand	-
Start	1	End	13007
Name	OJ000102_79.0426.C1.o1.gs	Method	GENSCAN
Start	258	End	5026
GI	none	Score	.71
Exons	258..435, 822..1237, 1294..4931, 4980..5026		

Seq. No.	54220	Seq. ID	OJ000102_79.0426.C1
Gene No.	113780	Strand	-
Start	1	End	13007
Name	OJ000102_79.0426.C1.o1.ts	Method	TBLASTX:Soybean
Start	2834	End	4012
GI	none	Score	52
Exons	2834..2926, 3512..3625, 3513..3626, 3734..4012, 3741..3992		

Seq. No.	54220	Seq. ID	OJ000102_79.0426.C1
Gene No.	113780	Strand	-
Start	1	End	13007
Name	OJ000102_79.0426.C1.o1.tm	Method	TBLASTX:Maize
Start	3581	End	4117
GI	none	Score	66
Exons	3581..3694, 3719..4117, 3732..3866		

Seq. No.	54220	Seq. ID	OJ000102_79.0426.C1
Gene No.	113780	Strand	-
Start	1	End	13007
Name	OJ000102_79.0426.C1.o2.tm	Method	TBLASTX:Maize
Start	4161	End	4528
GI	none	Score	39
Exons	4161..4196, 4190..4345, 4232..4342, 4370..4528, 4380..4526		

Seq. No.	54220	Seq. ID	OJ000102_79.0426.C1
Gene No.	113780	Strand	-
Start	1	End	13007
Name	OJ000102_79.0426.C1.o2.ts	Method	TBLASTX:Soybean
Start	4262	End	4517
GI	none	Score	61
Exons	4262..4450, 4457..4516, 4458..4517		

Seq. No.	54220	Seq. ID	OJ000102_79.0426.C1
Gene No.	113780	Strand	-
Start	1	End	13007
Name	OJ000102_79.0426.C1.o3.gs	Method	GENSCAN
Start	10409	End	13007
GI	none	Score	.96
Exons	10409..10707, 12704..13007		

Seq. No.	54221	Seq. ID	OJ000102_79.0426.C2
Gene No.	113781	Strand	+
Start	1	End	982
Name	OJ000102_79.0426.C2.o1.np	Method	AAT/NAP
Start	1	End	982
GI	6466937	Score	531
Exons	1..804, 854..982		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	54221	Seq. ID	OJ000102_79.0426.C2
Gene No.	113781	Strand	+
Start	1	End	982
Name	OJ000102_79.0426.C2.o2.tm	Method	TBLASTX:Maize
Start	4	End	246
GI	none	Score	193
Exons	4..246, 46..219		

Seq. No.	54221	Seq. ID	OJ000102_79.0426.C2
Gene No.	113781	Strand	+
Start	1	End	982
Name	OJ000102_79.0426.C2.o1.tm	Method	TBLASTX:Maize
Start	399	End	879
GI	none	Score	459
Exons	399..809, 411..806, 802..879		

Seq. No.	54221	Seq. ID	OJ000102_79.0426.C2
Gene No.	113781	Strand	+
Start	1	End	982
Name	OJ000102_79.0426.C2.o1.tw	Method	TBLASTX:Wheat
Start	453	End	981
GI	none	Score	284
Exons	453..818, 533..802, 807..953, 808..981		

Seq. No.	54221	Seq. ID	OJ000102_79.0426.C2
Gene No.	113781	Strand	+
Start	1	End	982
Name	OJ000102_79.0426.C2.o1.ts	Method	TBLASTX:Soybean
Start	489	End	804
GI	none	Score	196
Exons	489..803, 612..803, 613..804		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113782	Strand	+
Start	1	End	7836
Name	OJ000102_79.0426.C3.o1.np	Method	AAT/NAP
Start	1	End	5144
GI	6466937	Score	1269
Exons	1..338, 3309..5144		

GI Descrip. (AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113782	Strand	+
Start	1	End	7836
Name	OJ000102_79.0426.C3.o2.gs	Method	GENSCAN
Start	3854	End	5204
GI	none	Score	.81
Exons	3854..3998, 4417..4610, 4701..5204		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113782	Strand	+
Start	1	End	7836
Name	OJ000102_79.0426.C3.o2.np	Method	AAT/NAP
Start	4610	End	7836
GI	5852093	Score	63
Exons	4610..4646, 5990..6096, 7817..7836		
GI Descrip.	(AL117264) zwh16.1 [Oryza sativa]		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113783	Strand	+
Start	20774	End	22885
Name	OJ000102_79.0426.C3.o6.np	Method	AAT/NAP
Start	20774	End	22885
GI	6721512	Score	114
Exons	20774..20805, 22490..22617, 22644..22782, 22825..22885		
GI Descrip.	(AP001072) hypothetical protein [Oryza sativa]		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113783	Strand	+
Start	20774	End	22885
Name	OJ000102_79.0426.C3.o4.gs	Method	GENSCAN
Start	21738	End	22779
GI	none	Score	.44
Exons	21738..21749, 22555..22779		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113784	Strand	-
Start	455	End	629
Name	OJ000102_79.0426.C3.o1.gp	Method	AAT/GAP
Start	455	End	629
GI	LIB3433-026-P1-K1-C1	Score	237
Exons	455..629		
GI Descrip.	'5852170/emb|AL117265.1|OST17804 1.0e-44 Oryza sativa indica(GLA4) genomic DNA, chromosome 4, BAC clone:t17804'		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113785	Strand	-
Start	2120	End	2815
Name	OJ000102_79.0426.C3.o1.gs	Method	GENSCAN
Start	2120	End	2815
GI	none	Score	.86
Exons	2120..2815		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113786	Strand	-

Start	8188	End	13327
Name	OJ000102_79.0426.C3.o3.np	Method	AAT/NAP
Start	8188	End	13279
GI	6729489	Score	554
Exons	8188..8607, 8643..8962, 11913..12916, 12951..13279		
GI Descrip.	(AL132966) receptor lectin kinase-like protein [Arabidopsis thaliana]		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113786	Strand	-
Start	8188	End	13327
Name	OJ000102_79.0426.C3.o4.np	Method	AAT/NAP
Start	12429	End	13327
GI	4115549	Score	252
Exons	12429..12836, 12876..13327		
GI Descrip.	(AB012635) lectin-related polypeptide [Robinia pseudoacacia]		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113787	Strand	-
Start	14311	End	15199
Name	OJ000102_79.0426.C3.o5.np	Method	AAT/NAP
Start	14311	End	15199
GI	6815099	Score	97
Exons	14311..14491, 15063..15199		
GI Descrip.	(AP001081) hypothetical protein [Oryza sativa]		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113788	Strand	-
Start	25505	End	25603
Name	OJ000102_79.0426.C3.o5.tm	Method	TBLASTX:Maize
Start	3	End	3364
GI	none	Score	68
Exons	3..59, 23..337, 67..321, 137..328, 3305..3364		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113788	Strand	-
Start	25505	End	25603
Name	OJ000102_79.0426.C3.o5.tw	Method	TBLASTX:Wheat
Start	3	End	322
GI	none	Score	43
Exons	3..59, 40..270, 41..322		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113788	Strand	-
Start	25505	End	25603
Name	OJ000102_79.0426.C3.o4.tm	Method	TBLASTX:Maize
Start	3364	End	3790
GI	none	Score	243
Exons	3364..3537, 3365..3556, 3560..3790		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113788	Strand	-
Start	25505	End	25603
Name	OJ000102_79.0426.C3.o1.tw	Method	TBLASTX:Wheat
Start	3563	End	3955
GI	none	Score	357
Exons	3563..3955, 3667..3951		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113788	Strand	-
Start	25505	End	25603
Name	OJ000102_79.0426.C3.o1.tm	Method	TBLASTX:Maize
Start	3791	End	4429
GI	none	Score	239
Exons	3791..4012, 3793..4011, 4023..4427, 4025..4429		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113788	Strand	-
Start	25505	End	25603
Name	OJ000102_79.0426.C3.o1.ts	Method	TBLASTX:Soybean
Start	3827	End	4199
GI	none	Score	173
Exons	3827..4012, 3928..4011, 4029..4199, 4034..4189		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113788	Strand	-
Start	25505	End	25603
Name	OJ000102_79.0426.C3.o3.tw	Method	TBLASTX:Wheat
Start	4047	End	4439
GI	none	Score	287
Exons	4047..4439, 4047..4418, 4406..4426		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113788	Strand	-
Start	25505	End	25603
Name	OJ000102_79.0426.C3.o2.tm	Method	TBLASTX:Maize
Start	4470	End	5084
GI	none	Score	511
Exons	4470..5084, 4517..4795, 4830..5039		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113788	Strand	-
Start	25505	End	25603
Name	OJ000102_79.0426.C3.o2.tw	Method	TBLASTX:Wheat
Start	4494	End	4850
GI	none	Score	341
Exons	4494..4850, 4496..4795		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113788	Strand	-
Start	25505	End	25603
Name	OJ000102_79.0426.C3.o1.tc	Method	TBLASTX:Cress
Start	8380	End	12103
GI	none	Score	97
Exons	8380..8514, 8536..8586, 8651..8785, 8653..8781, 8773..8964, 8801..8953, 8845..8964, 11933..12103		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113788	Strand	-
Start	25505	End	25603
Name	OJ000102_79.0426.C3.o2.ts	Method	TBLASTX:Soybean
Start	8380	End	12097
GI	none	Score	97
Exons	8380..8532, 8653..8964, 8657..8851, 12017..12097		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113788	Strand	-
Start	25505	End	25603
Name	OJ000102_79.0426.C3.o3.tm	Method	TBLASTX:Maize
Start	8551	End	8904
GI	none	Score	44
Exons	8551..8586, 8563..8601, 8665..8904, 8666..8902, 8839..8904		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113788	Strand	-
Start	25505	End	25603
Name	OJ000102_79.0426.C3.o4.tw	Method	TBLASTX:Wheat
Start	8653	End	8967
GI	none	Score	105
Exons	8653..8781, 8654..8791, 8812..8967, 8839..8928		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113788	Strand	-
Start	25505	End	25603
Name	OJ000102_79.0426.C3.o6.tm	Method	TBLASTX:Maize
Start	12986	End	13237
GI	none	Score	224
Exons	12986..13237, 12987..13199		

Seq. No.	54222	Seq. ID	OJ000102_79.0426.C3
Gene No.	113788	Strand	-
Start	25505	End	25603
Name	OJ000102_79.0426.C3.o7.np	Method	AAT/NAP
Start	25505	End	25603
GI	5777617	Score	98
Exons	25505..25603		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	54223	Seq. ID	OJ000102_79.0426.C4
Gene No.	113789	Strand	+
Start	1	End	1881
Name	OJ000102_79.0426.C4.o1.np	Method	AAT/NAP
Start	1	End	1881
GI	4680203	Score	1330
Exons	1..1463, 1623..1881		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	54223	Seq. ID	OJ000102_79.0426.C4
Gene No.	113789	Strand	+
Start	1	End	1881
Name	OJ000102_79.0426.C4.o1.tw	Method	TBLASTX:Wheat
Start	160	End	840
GI	none	Score	244
Exons	160..576, 249..449, 585..695, 589..708, 715..840		

Seq. No.	54223	Seq. ID	OJ000102_79.0426.C4
Gene No.	113789	Strand	+
Start	1	End	1881
Name	OJ000102_79.0426.C4.o1.ts	Method	TBLASTX:Soybean
Start	232	End	569
GI	none	Score	47

Exons	232..279, 237..287, 245..559, 285..563, 285..569, 286..567		
Seq. No.	54223	Seq. ID	OJ000102_79.0426.C4
Gene No.	113789	Strand	+
Start	1	End	1881
Name	OJ000102_79.0426.C4.o2.ts	Method	TBLASTX:Soybean
Start	588	End	855
GI	none	Score	232
Exons	588..854, 592..855		
Seq. No.	54223	Seq. ID	OJ000102_79.0426.C4
Gene No.	113789	Strand	+
Start	1	End	1881
Name	OJ000102_79.0426.C4.o1.tc	Method	TBLASTX:Cress
Start	589	End	936
GI	none	Score	319
Exons	589..936, 594..743, 783..935		
Seq. No.	54223	Seq. ID	OJ000102_79.0426.C4
Gene No.	113789	Strand	+
Start	1	End	1881
Name	OJ000102_79.0426.C4.o1.tm	Method	TBLASTX:Maize
Start	780	End	1224
GI	none	Score	215
Exons	780..1007, 781..1023, 1032..1208, 1033..1224		
Seq. No.	54223	Seq. ID	OJ000102_79.0426.C4
Gene No.	113789	Strand	+
Start	1	End	1881
Name	OJ000102_79.0426.C4.o2.tw	Method	TBLASTX:Wheat
Start	889	End	1172
GI	none	Score	133
Exons	889..984, 891..986, 1033..1167, 1083..1172		
Seq. No.	54223	Seq. ID	OJ000102_79.0426.C4
Gene No.	113789	Strand	+
Start	1	End	1881
Name	OJ000102_79.0426.C4.o3.ts	Method	TBLASTX:Soybean
Start	1059	End	1293
GI	none	Score	219
Exons	1059..1220, 1060..1293, 1084..1284		
Seq. No.	54223	Seq. ID	OJ000102_79.0426.C4
Gene No.	113789	Strand	+
Start	1	End	1881
Name	OJ000102_79.0426.C4.o2.tm	Method	TBLASTX:Maize
Start	1405	End	1600
GI	none	Score	222
Exons	1405..1599, 1406..1600		
Seq. No.	54223	Seq. ID	OJ000102_79.0426.C4
Gene No.	113789	Strand	+
Start	1	End	1881
Name	OJ000102_79.0426.C4.o3.tw	Method	TBLASTX:Wheat
Start	1412	End	1615
GI	none	Score	148
Exons	1412..1525, 1414..1521, 1418..1522, 1526..1615, 1537..1578		

Seq. No.	54224	Seq. ID	OJ000102_79.0426.C5
Gene No.	113790	Strand	+
Start	141	End	749
Name	OJ000102_79.0426.C5.o1.gs	Method	GENSCAN
Start	141	End	749
GI	none	Score	.63
Exons	141..749		

Seq. No.	54224	Seq. ID	OJ000102_79.0426.C5
Gene No.	113791	Strand	-
Start	237	End	781
Name	OJ000102_79.0426.C5.o1.gp	Method	AAT/GAP
Start	237	End	781
GI	10972_1.R1084	Score	891
Exons	237..680, 752..781		
GI Descrip.	'4249382/gb|AAD14479| 4.0e-18 (AC005966) Strong similarity to gi_3337350 F13P17.3 putative permease from Arabidopsis thaliana BAC gb_AC004481. [Arabidopsis thaliana]'		

Seq. No.	54225	Seq. ID	OJ000102_79.0426.C6
Gene No.	113792	Strand	-
Start	2130	End	6726
Name	OJ000102_79.0426.C6.o1.gs	Method	GENSCAN
Start	2130	End	6726
GI	none	Score	.73
Exons	2130..2678, 2788..2888, 3099..3237, 3726..3825, 4211..4336, 4425..4957, 6259..6726		

Seq. No.	54225	Seq. ID	OJ000102_79.0426.C6
Gene No.	113792	Strand	-
Start	2130	End	6726
Name	OJ000102_79.0426.C6.o1.np	Method	AAT/NAP
Start	2325	End	3035
GI	5114353	Score	42
Exons	2325..2393, 2902..3035		
GI Descrip.	(AF156272) RING finger protein terf [Rattus norvegicus]		

Seq. No.	54225	Seq. ID	OJ000102_79.0426.C6
Gene No.	113792	Strand	-
Start	2130	End	6726
Name	OJ000102_79.0426.C6.o2.np	Method	AAT/NAP
Start	2522	End	6690
GI	7487036	Score	840
Exons	2522..2604, 3184..3239, 3312..3415, 3506..3570, 3738..3825, 4211..4308, 4421..4953, 6255..6462, 6532..6690		
GI Descrip.	hypothetical protein T15F16.7 - Arabidopsis thaliana gi|3377817|gb|AAC28190.1| (AF076275) contains similarity to C3HC4-type zinc fingers (Pfam: zf-C3HC4.hmm, score: 29.48) [Arabidopsis thaliana]		

Seq. No.	54225	Seq. ID	OJ000102_79.0426.C6
Gene No.	113792	Strand	-
Start	2130	End	6726
Name	OJ000102_79.0426.C6.o1.tm	Method	TBLASTX:Maize
Start	2622	End	3232
GI	none	Score	211

Exons	2622..2681, 2785..3003, 2792..3007, 3094..3231, 3100..3231, 3170..3232		
Seq. No.	54225	Seq. ID	OJ000102_79.0426.C6
Gene No.	113792	Strand	-
Start	2130	End	6726
Name	OJ000102_79.0426.C6.o1.tc	Method	TBLASTX:Cress
Start	2812	End	3562
GI	none	Score	84
Exons	2812..2862, 2929..3021, 2935..3003, 3157..3225, 3186..3224, 3309..3419, 3313..3414, 3503..3562, 3508..3561		
Seq. No.	54225	Seq. ID	OJ000102_79.0426.C6
Gene No.	113792	Strand	-
Start	2130	End	6726
Name	OJ000102_79.0426.C6.o1.tw	Method	TBLASTX:Wheat
Start	2920	End	4991
GI	none	Score	137
Exons	2920..2967, 4796..4957, 4797..4958, 4797..4991, 4888..4965		
Seq. No.	54225	Seq. ID	OJ000102_79.0426.C6
Gene No.	113792	Strand	-
Start	2130	End	6726
Name	OJ000102_79.0426.C6.o2.tm	Method	TBLASTX:Maize
Start	4931	End	6684
GI	none	Score	60
Exons	4931..4963, 6259..6348, 6260..6358, 6379..6495, 6469..6648, 6509..6649, 6519..6653, 6658..6684		
Seq. No.	54225	Seq. ID	OJ000102_79.0426.C6
Gene No.	113792	Strand	-
Start	2130	End	6726
Name	OJ000102_79.0426.C6.o2.tc	Method	TBLASTX:Cress
Start	6367	End	6698
GI	none	Score	99
Exons	6367..6489, 6511..6684, 6522..6698, 6530..6697		
Seq. No.	54226	Seq. ID	OJ000102_79.0426.C7
Gene No.	113793	Strand	+
Start	3085	End	3734
Name	OJ000102_79.0426.C7.o2.gs	Method	GENSCAN
Start	3085	End	3734
GI	none	Score	.51
Exons	3085..3237, 3503..3535, 3723..3734		
Seq. No.	54226	Seq. ID	OJ000102_79.0426.C7
Gene No.	113794	Strand	+
Start	6869	End	10457
Name	OJ000102_79.0426.C7.o2.np	Method	AAT/NAP
Start	6869	End	8426
GI	1076211	Score	172
Exons	6869..7039, 7944..8426		
GI Descrip.	hypothetical protein VSP-3 - Chlamydomonas reinhardtii gi|530876 (L29029) amino acid feature: Rod protein domain, aa 266 .. 468; amino acid feature: globular protein domain, aa 32 .. 265 [Chlamydomonas reinhardtii]		

Seq. No.	54226	Seq. ID	OJ000102_79.0426.C7
Gene No.	113794	Strand	+
Start	6869	End	10457
Name	OJ000102_79.0426.C7.o5.gs	Method	GENSCAN
Start	7646	End	10394
GI	none	Score	.77
Exons	7646..7716, 8060..8506, 8984..9226, 9275..9414, 9793..10394		

Seq. No.	54226	Seq. ID	OJ000102_79.0426.C7
Gene No.	113794	Strand	+
Start	6869	End	10457
Name	OJ000102_79.0426.C7.o3.np	Method	AAT/NAP
Start	9232	End	10457
GI	4544372	Score	572
Exons	9232..10457		
GI Descrip.	(AC006920) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	54226	Seq. ID	OJ000102_79.0426.C7
Gene No.	113795	Strand	-
Start	1358	End	7116
Name	OJ000102_79.0426.C7.o1.gs	Method	GENSCAN
Start	1358	End	1924
GI	none	Score	1
Exons	1358..1924		

Seq. No.	54226	Seq. ID	OJ000102_79.0426.C7
Gene No.	113795	Strand	-
Start	1358	End	7116
Name	OJ000102_79.0426.C7.o1.np	Method	AAT/NAP
Start	1361	End	7068
GI	130940	Score	264
Exons	1361..1509, 6714..7068		
GI Descrip.	PATHOGENESIS-RELATED PROTEIN PRMS PRECURSOR gi|100906|pir||S14969 pathogenesis-related protein - maize gi|22454|emb|CAA38223| (X54325) pathogenesis-related protein [Zea mays]		

Seq. No.	54226	Seq. ID	OJ000102_79.0426.C7
Gene No.	113795	Strand	-
Start	1358	End	7116
Name	OJ000102_79.0426.C7.o3.gs	Method	GENSCAN
Start	4285	End	4857
GI	none	Score	1
Exons	4285..4857		

Seq. No.	54226	Seq. ID	OJ000102_79.0426.C7
Gene No.	113795	Strand	-
Start	1358	End	7116
Name	OJ000102_79.0426.C7.o4.gs	Method	GENSCAN
Start	6538	End	7116
GI	none	Score	.81
Exons	6538..7116		

Seq. No.	54226	Seq. ID	OJ000102_79.0426.C7
Gene No.	113796	Strand	-
Start	10828	End	15852

Name	OJ000102_79.0426.C7.o3.ts	Method	TBLASTX:Soybean
Start	1346	End	6958
GI	none	Score	98
Exons	1346..1507, 1365..1508, 1679..1810, 1719..1787, 4255..4341, 4297..4377, 4381..4482, 4391..4456, 4465..4584, 4615..4737, 6535..6591, 6568..6675, 6754..6801, 6856..6957, 6857..6958		

Seq. No.	54226	Seq. ID	OJ000102_79.0426.C7
Gene No.	113796	Strand	-
Start	10828	End	15852
Name	OJ000102_79.0426.C7.o1.tc	Method	TBLASTX:Cress
Start	1358	End	6966
GI	none	Score	112
Exons	1358..1429, 1424..1498, 1679..1816, 4381..4446, 4549..4584, 4618..4737, 6538..6675, 6718..6750, 6856..6966		

Seq. No.	54226	Seq. ID	OJ000102_79.0426.C7
Gene No.	113796	Strand	-
Start	10828	End	15852
Name	OJ000102_79.0426.C7.o1.tm	Method	TBLASTX:Maize
Start	1361	End	7050
GI	none	Score	113
Exons	1361..1510, 1365..1511, 1706..1810, 4292..4321, 4297..4335, 4381..4458, 4391..4459, 4468..4584, 4639..4737, 4649..4717, 4700..4756, 6568..6675, 6608..6664, 6718..6828, 6755..6886, 6862..7050, 6863..6958		

Seq. No.	54226	Seq. ID	OJ000102_79.0426.C7
Gene No.	113796	Strand	-
Start	10828	End	15852
Name	OJ000102_79.0426.C7.o2.tw	Method	TBLASTX:Wheat
Start	1361	End	6960
GI	none	Score	87
Exons	1361..1507, 1365..1508, 1407..1601, 1514..1627, 1676..1810, 1707..1811, 4171..4254, 4297..4332, 4381..4476, 4462..4530, 4618..4737, 4640..4717, 6541..6591, 6568..6675, 6608..6664, 6754..6828, 6755..6826, 6841..6960, 6857..6958		

Seq. No.	54226	Seq. ID	OJ000102_79.0426.C7
Gene No.	113796	Strand	-
Start	10828	End	15852
Name	OJ000102_79.0426.C7.o2.tm	Method	TBLASTX:Maize
Start	9312	End	9644
GI	none	Score	195
Exons	9312..9644		

Seq. No.	54226	Seq. ID	OJ000102_79.0426.C7
Gene No.	113796	Strand	-
Start	10828	End	15852
Name	OJ000102_79.0426.C7.o2.ts	Method	TBLASTX:Soybean
Start	9477	End	9875
GI	none	Score	227
Exons	9477..9875, 9582..9692		

Seq. No.	54226	Seq. ID	OJ000102_79.0426.C7
Gene No.	113796	Strand	-
Start	10828	End	15852

Name	OJ000102_79.0426.C7.o1.tw	Method	TBLASTX:Wheat
Start	10035	End	10442
GI	none	Score	227
Exons	10035..10442		

Seq. No.	54226	Seq. ID	OJ000102_79.0426.C7
Gene No.	113796	Strand	-
Start	10828	End	15852
Name	OJ000102_79.0426.C7.o1.ts	Method	TBLASTX:Soybean
Start	10218	End	10463
GI	none	Score	236
Exons	10218..10463, 10220..10357		

Seq. No.	54226	Seq. ID	OJ000102_79.0426.C7
Gene No.	113796	Strand	-
Start	10828	End	15852
Name	OJ000102_79.0426.C7.o6.gs	Method	GENSCAN
Start	10828	End	15852
GI	none	Score	.82
Exons	10828..11511, 11591..11674, 11772..11831, 11907..12341, 12420..13309, 13397..13892, 13989..14105, 14946..14990, 15760..15852		

Seq. No.	54227	Seq. ID	OJ000102_79.0426.C8
Gene No.	113797	Strand	-
Start	5348	End	7022
Name	OJ000102_79.0426.C8.o2.gs	Method	GENSCAN
Start	5348	End	7022
GI	none	Score	.66
Exons	5348..5464, 5550..5838, 6170..6503, 6677..7022		

Seq. No.	54227	Seq. ID	OJ000102_79.0426.C8
Gene No.	113798	Strand	-
Start	7272	End	9468
Name	OJ000102_79.0426.C8.o3.gs	Method	GENSCAN
Start	7272	End	9468
GI	none	Score	.71
Exons	7272..7589, 7668..8161, 8949..9468		

Seq. No.	54228	Seq. ID	OJ000102_79.0426.C9
Gene No.	113799	Strand	-
Start	554	End	1032
Name	OJ000102_79.0426.C9.o1.np	Method	AAT/NAP
Start	530	End	1032
GI	4680203	Score	242
Exons	530..1032		
GI Descrip.	(AF114171) TNP2-like protein [Sorghum bicolor]		

Seq. No.	54228	Seq. ID	OJ000102_79.0426.C9
Gene No.	113799	Strand	-
Start	554	End	1032
Name	OJ000102_79.0426.C9.o1.gs	Method	GENSCAN
Start	554	End	975
GI	none	Score	.9
Exons	554..975		

Seq. No.	54228	Seq. ID	OJ000102_79.0426.C9

Gene No.	113799	Strand	-
Start	554	End	1032
Name	OJ000102_79.0426.C9.o1.tw	Method	TBLASTX:Wheat
Start	608	End	1032
GI	none	Score	76
Exons	608..727, 728..832, 729..833, 860..904, 904..948, 905..955, 970..1032, 971..1030		

Seq. No.	54228	Seq. ID	OJ000102_79.0426.C9
Gene No.	113799	Strand	-
Start	554	End	1032
Name	OJ000102_79.0426.C9.o1.ts	Method	TBLASTX:Soybean
Start	671	End	919
GI	none	Score	86
Exons	671..919, 735..917		

Seq. No.	54229	Seq. ID	OJ000102_79.0426.C10
Gene No.	113800	Strand	-
Start	1	End	1957
Name	OJ000102_79.0426.C10.o1.np	Method	AAT/NAP
Start	1	End	1957
GI	7248394	Score	1417
Exons	1..861, 1129..1957		
GI Descrip.	(AP001389) ESTs C97394(C60113),AU075824(R0165),D38985(R0165) correspond to a region of the predicted gene.~Similar to Arabidopsis thaliana chromosome II BAC F15O11 genomic sequence; putative pol polyprotein with a reverse transcriptase domain (AC006446)		

Seq. No.	54229	Seq. ID	OJ000102_79.0426.C10
Gene No.	113800	Strand	-
Start	1	End	1957
Name	OJ000102_79.0426.C10.o1.tm	Method	TBLASTX:Maize
Start	336	End	724
GI	none	Score	146
Exons	336..626, 382..576, 387..626, 635..724, 660..722		

Seq. No.	54229	Seq. ID	OJ000102_79.0426.C10
Gene No.	113800	Strand	-
Start	1	End	1957
Name	OJ000102_79.0426.C10.o1.ts	Method	TBLASTX:Soybean
Start	420	End	626
GI	none	Score	75
Exons	420..626, 421..558		

Seq. No.	54229	Seq. ID	OJ000102_79.0426.C10
Gene No.	113800	Strand	-
Start	1	End	1957
Name	OJ000102_79.0426.C10.o1.tw	Method	TBLASTX:Wheat
Start	594	End	997
GI	none	Score	241
Exons	594..626, 623..946, 638..934, 660..935, 941..997		

Seq. No.	54229	Seq. ID	OJ000102_79.0426.C10
Gene No.	113800	Strand	-
Start	1	End	1957
Name	OJ000102_79.0426.C10.o2.tm	Method	TBLASTX:Maize

Start	725	End	943
GI	none	Score	223
Exons	725..943, 726..935, 743..943		

Seq. No.	54229	Seq. ID	OJ000102_79.0426.C10
Gene No.	113800	Strand	-
Start	1	End	1957
Name	OJ000102_79.0426.C10.o2.ts	Method	TBLASTX:Soybean
Start	794	End	1159
GI	none	Score	114
Exons	794..928, 941..1159		

Seq. No.	54229	Seq. ID	OJ000102_79.0426.C10
Gene No.	113800	Strand	-
Start	1	End	1957
Name	OJ000102_79.0426.C10.o3.ts	Method	TBLASTX:Soybean
Start	1569	End	1901
GI	none	Score	176
Exons	1569..1901		

Seq. No.	54230	Seq. ID	OJ000102_79.0426.C11
Gene No.	113801	Strand	-
Start	401	End	6666
Name	OJ000102_79.0426.C11.o1.gs	Method	GENSCAN
Start	401	End	6005
GI	none	Score	.54
Exons	401..979, 1252..1478, 1910..1989, 2073..2258, 2484..2533, 2656..2828, 2914..3026, 4424..4622, 5978..6005		

Seq. No.	54230	Seq. ID	OJ000102_79.0426.C11
Gene No.	113801	Strand	-
Start	401	End	6666
Name	OJ000102_79.0426.C11.o1.np	Method	AAT/NAP
Start	2128	End	2876
GI	7248393	Score	389
Exons	2128..2420, 2513..2876		
GI Descrip.	(AP001389) hypothetical protein [Oryza sativa]		

Seq. No.	54230	Seq. ID	OJ000102_79.0426.C11
Gene No.	113801	Strand	-
Start	401	End	6666
Name	OJ000102_79.0426.C11.o2.np	Method	AAT/NAP
Start	2929	End	6666
GI	7106508	Score	58
Exons	2929..2963, 4624..4708, 4854..5153, 6605..6666		
GI Descrip.	(AP001278) hypothetical protein [Oryza sativa]		

Seq. No.	54231	Seq. ID	OJ000102_79.0426.C12
Gene No.	113802	Strand	+
Start	489	End	1126
Name	OJ000102_79.0426.C12.o1.np	Method	AAT/NAP
Start	489	End	1126
GI	2498930	Score	744
Exons	489..552, 720..1126		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi|1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	54232	Seq. ID	OJ000122_66.0419.C2
Gene No.	113803	Strand	-
Start	1	End	767
Name	OJ000122_66.0419.C2.o1.np	Method	AAT/NAP
Start	1	End	767
GI	130582	Score	701
Exons	1..767		
GI Descrip.	RETROVIRUS-RELATED POL POLYPROTEIN FROM TRANSPOSON TNT 1-94 [CONTAINS: PROTEASE ; REVERSE TRANSCRIPTASE ; ENDONUCLEASE] gi|100342|pir||S04273 hypothetical protein - common tobacco gi|20045|emb|CAA32025| (X13777) ORF [Nicotiana tabacum]		

Seq. No.	54232	Seq. ID	OJ000122_66.0419.C2
Gene No.	113803	Strand	-
Start	1	End	767
Name	OJ000122_66.0419.C2.o2.tm	Method	TBLASTX:Maize
Start	2	End	142
GI	none	Score	112
Exons	2..142, 6..131, 20..139		

Seq. No.	54232	Seq. ID	OJ000122_66.0419.C2
Gene No.	113803	Strand	-
Start	1	End	767
Name	OJ000122_66.0419.C2.o2.tw	Method	TBLASTX:Wheat
Start	2	End	239
GI	none	Score	74
Exons	2..154, 5..208, 18..239		

Seq. No.	54232	Seq. ID	OJ000122_66.0419.C2
Gene No.	113803	Strand	-
Start	1	End	767
Name	OJ000122_66.0419.C2.o1.ts	Method	TBLASTX:Soybean
Start	5	End	370
GI	none	Score	68
Exons	5..214, 6..239, 245..343, 266..370		

Seq. No.	54232	Seq. ID	OJ000122_66.0419.C2
Gene No.	113803	Strand	-
Start	1	End	767
Name	OJ000122_66.0419.C2.o1.gs	Method	GENSCAN
Start	125	End	700
GI	none	Score	.62
Exons	125..351, 598..700		

Seq. No.	54232	Seq. ID	OJ000122_66.0419.C2
Gene No.	113803	Strand	-
Start	1	End	767
Name	OJ000122_66.0419.C2.o1.tm	Method	TBLASTX:Maize
Start	143	End	680
GI	none	Score	183
Exons	143..205, 266..559, 270..545, 521..679, 591..680		

Seq. No.	54232	Seq. ID	OJ000122_66.0419.C2
Gene No.	113803	Strand	-
Start	1	End	767
Name	OJ000122_66.0419.C2.o1.tw	Method	TBLASTX:Wheat
Start	332	End	766

GI	none	Score	64
Exons	332..766, 576..716		

Seq. No.	54233	Seq. ID	OJ000122_66.0419.C3
Gene No.	113804	Strand	-
Start	1	End	1523
Name	OJ000122_66.0419.C3.o1.np	Method	AAT/NAP
Start	1	End	1523
GI	6623973	Score	559
Exons	1..1523		
GI Descrip.	(AC007505) Highly similar to Tal-3 polyprotein [Arabidopsis thaliana]		

Seq. No.	54233	Seq. ID	OJ000122_66.0419.C3
Gene No.	113804	Strand	-
Start	1	End	1523
Name	OJ000122_66.0419.C3.o2.np	Method	AAT/NAP
Start	1	End	1517
GI	7444416	Score	496
Exons	1..482, 540..1517		
GI Descrip.	hypothetical protein F7L13.40 - Arabidopsis thaliana gi|4539406|emb|CAB40039.1| (AL049524) putative retrotransposon [Arabidopsis thaliana] gi|7267743|emb|CAB78169.1| (AL161517) putative retrotransposon [Arabidopsis thaliana]		

Seq. No.	54233	Seq. ID	OJ000122_66.0419.C3
Gene No.	113804	Strand	-
Start	1	End	1523
Name	OJ000122_66.0419.C3.o1.gs	Method	GENSCAN
Start	44	End	1517
GI	none	Score	.52
Exons	44..938, 1122..1228, 1346..1517		

Seq. No.	54233	Seq. ID	OJ000122_66.0419.C3
Gene No.	113804	Strand	-
Start	1	End	1523
Name	OJ000122_66.0419.C3.o1.tw	Method	TBLASTX:Wheat
Start	767	End	1155
GI	none	Score	40
Exons	767..904, 815..856, 882..953, 942..1052, 953..1009, 1037..1129, 1038..1154, 1039..1155		

Seq. No.	54234	Seq. ID	OJ000122_66.0419.C4
Gene No.	113805	Strand	-
Start	1	End	726
Name	OJ000122_66.0419.C4.o1.gp	Method	AAT/GAP
Start	1	End	726
GI	31559_1.R1084	Score	1147
Exons	1..726		
GI Descrip.	'3023945/sp|O22446|HDAC_ARATH 2.0e-81 HISTONE DEACETYLASE (HD) >gi_2318131 (AF014824) histone deacetylase [Arabidopsis thaliana]'		

Seq. No.	54234	Seq. ID	OJ000122_66.0419.C4
Gene No.	113805	Strand	-
Start	1	End	726
Name	OJ000122_66.0419.C4.o1.np	Method	AAT/NAP

Start	1	End	570
GI	7444258	Score	730
Exons	1..570		
GI Descrip.	histone deacetylase (EC 3.5.1.-) F20D10.250 - Arabidopsis thaliana gi|4467119|emb|CAB37553.1| (AL035538) Histone deacetylase [Arabidopsis thaliana] gi|7270797|emb|CAB80478.1| (AL161593) Histone deacetylase [Arabidopsis thaliana]		

Seq. No.	54234	Seq. ID	OJ000122_66.0419.C4
Gene No.	113805	Strand	-
Start	1	End	726
Name	OJ000122_66.0419.C4.o1.gs	Method	GENSCAN
Start	31	End	681
GI	none	Score	.77
Exons	31..681		

Seq. No.	54234	Seq. ID	OJ000122_66.0419.C4
Gene No.	113805	Strand	-
Start	1	End	726
Name	OJ000122_66.0419.C4.o1.ts	Method	TBLASTX:Soybean
Start	31	End	538
GI	none	Score	215
Exons	31..384, 41..253, 287..379, 397..528, 404..538		

Seq. No.	54234	Seq. ID	OJ000122_66.0419.C4
Gene No.	113805	Strand	-
Start	1	End	726
Name	OJ000122_66.0419.C4.o1.tc	Method	TBLASTX:Cress
Start	31	End	541
GI	none	Score	357
Exons	31..384, 32..385, 341..541, 397..528		

Seq. No.	54234	Seq. ID	OJ000122_66.0419.C4
Gene No.	113805	Strand	-
Start	1	End	726
Name	OJ000122_66.0419.C4.o1.tm	Method	TBLASTX:Maize
Start	64	End	529
GI	none	Score	185
Exons	64..384, 65..271, 296..382, 400..528, 401..529		

Seq. No.	54235	Seq. ID	OJ000122_66.0419.C9
Gene No.	113806	Strand	+
Start	127	End	672
Name	OJ000122_66.0419.C9.o1.np	Method	AAT/NAP
Start	127	End	672
GI	7228450	Score	181
Exons	127..212, 346..466, 551..672		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	54235	Seq. ID	OJ000122_66.0419.C9
Gene No.	113807	Strand	+
Start	1283	End	2689
Name	OJ000122_66.0419.C9.o1.gs	Method	GENSCAN
Start	1283	End	1752
GI	none	Score	.99
Exons	1283..1287, 1530..1752		

Seq. No.	54235	Seq. ID	OJ000122_66.0419.C9
Gene No.	113807	Strand	+
Start	1283	End	2689
Name	OJ000122_66.0419.C9.o2.np	Method	AAT/NAP
Start	1486	End	2689
GI	5295937	Score	1360
Exons	1486..1734, 2103..2689		
GI Descrip.	(AB026295) hypothetical protein [Oryza sativa]		

Seq. No.	54235	Seq. ID	OJ000122_66.0419.C9
Gene No.	113808	Strand	-
Start	2103	End	2615
Name	OJ000122_66.0419.C9.o1.ts	Method	TBLASTX:Soybean
Start	1570	End	2201
GI	none	Score	236
Exons	1570..1764, 1611..1742, 2115..2201		

Seq. No.	54235	Seq. ID	OJ000122_66.0419.C9
Gene No.	113808	Strand	-
Start	2103	End	2615
Name	OJ000122_66.0419.C9.o2.gs	Method	GENSCAN
Start	2103	End	2615
GI	none	Score	.74
Exons	2103..2615		

Seq. No.	54236	Seq. ID	OJ000122_66.0419.C10
Gene No.	113809	Strand	-
Start	1063	End	1777
Name	OJ000122_66.0419.C10.o1.gs	Method	GENSCAN
Start	1063	End	1777
GI	none	Score	.84
Exons	1063..1236, 1389..1508, 1730..1777		

Seq. No.	54237	Seq. ID	OJ000122_66.0419.C13
Gene No.	113810	Strand	+
Start	51	End	637
Name	OJ000122_66.0419.C13.o1.gs	Method	GENSCAN
Start	51	End	637
GI	none	Score	.7
Exons	51..172, 539..637		

Seq. No.	54237	Seq. ID	OJ000122_66.0419.C13
Gene No.	113811	Strand	-
Start	203	End	538
Name	OJ000122_66.0419.C13.o1.np	Method	AAT/NAP
Start	203	End	538
GI	3023947	Score	81
Exons	203..307, 455..538		
GI Descrip.	PROBABLE HISTONE DEACETYLASE (RPD3 HOMOLOG) gi|2665840 (AF035815) putative histone deacetylase RPD3 [Zea mays]		

Seq. No.	54237	Seq. ID	OJ000122_66.0419.C13
Gene No.	113811	Strand	-
Start	203	End	538
Name	OJ000122_66.0419.C13.o1.gp	Method	AAT/GAP
Start	212	End	535
GI	20921_1.R1084	Score	209

Exons	212..307, 455..535		
GI Descrip.	'3023947/sp|P56521|HDAC_MAIZE 6.0e-75 PROBABLE HISTONE DEACETYLASE (RPD3 HOMOLOG) >gi_2665840 (AF035815) putative histone deacetylase RPD3 [Zea mays]'		
Seq. No.	54238	Seq. ID	OJ000122_66.0419.C16
Gene No.	113812	Strand	+
Start	1	End	1212
Name	OJ000122_66.0419.C16.o1.np	Method	AAT/NAP
Start	1	End	1212
GI	7444258	Score	608
Exons	1..245, 1003..1212		
GI Descrip.	histone deacetylase (EC 3.5.1.-) F20D10.250 - Arabidopsis thaliana gi|4467119|emb|CAB37553.1| (AL035538) Histone deacetylase [Arabidopsis thaliana] gi|7270797|emb|CAB80478.1| (AL161593) Histone deacetylase [Arabidopsis thaliana]		
Seq. No.	54238	Seq. ID	OJ000122_66.0419.C16
Gene No.	113812	Strand	+
Start	1	End	1212
Name	OJ000122_66.0419.C16.o1.tc	Method	TBLASTX:Cress
Start	1	End	1209
GI	none	Score	338
Exons	1..216, 1..210, 3..221, 216..254, 221..265, 986..1108, 1000..1209, 1002..1205		
Seq. No.	54238	Seq. ID	OJ000122_66.0419.C16
Gene No.	113812	Strand	+
Start	1	End	1212
Name	OJ000122_66.0419.C16.o1.tm	Method	TBLASTX:Maize
Start	1	End	1212
GI	none	Score	343
Exons	1..216, 3..218, 3..215, 215..244, 216..254, 1000..1212, 1002..1205		
Seq. No.	54238	Seq. ID	OJ000122_66.0419.C16
Gene No.	113812	Strand	+
Start	1	End	1212
Name	OJ000122_66.0419.C16.o1.ts	Method	TBLASTX:Soybean
Start	4	End	1059
GI	none	Score	287
Exons	4..213, 30..212, 216..254, 218..244, 1003..1059		
Seq. No.	54238	Seq. ID	OJ000122_66.0419.C16
Gene No.	113812	Strand	+
Start	1	End	1212
Name	OJ000122_66.0419.C16.o1.tw	Method	TBLASTX:Wheat
Start	7	End	1128
GI	none	Score	335
Exons	7..216, 15..215, 47..220, 161..220, 215..244, 216..254, 1000..1128, 1000..1125, 1002..1127		
Seq. No.	54238	Seq. ID	OJ000122_66.0419.C16
Gene No.	113812	Strand	+
Start	1	End	1212
Name	OJ000122_66.0419.C16.o1.gp	Method	AAT/GAP
Start	44	End	1212

GI	20921_1.R1084	Score	730
Exons	44..245, 1003..1212		
GI Descrip.	'3023947/sp|P56521|HDAC_MAIZE 6.0e-75 PROBABLE HISTONE DEACETYLASE (RPD3 HOMOLOG) >gi_2665840 (AF035815) putative histone deacetylase RPD3 [Zea mays]'		

Seq. No.	54238	Seq. ID	OJ000122_66.0419.C16
Gene No.	113812	Strand	+
Start	1	End	1212
Name	OJ000122_66.0419.C16.o1.gs	Method	GENSCAN
Start	46	End	245
GI	none	Score	.8
Exons	46..245		

Seq. No.	54238	Seq. ID	OJ000122_66.0419.C16
Gene No.	113812	Strand	+
Start	1	End	1212
Name	OJ000122_66.0419.C16.o2.ts	Method	TBLASTX:Soybean
Start	1059	End	1209
GI	none	Score	194
Exons	1059..1205, 1060..1209, 1060..1209		

Seq. No.	54239	Seq. ID	OJ000122_66.0419.C18
Gene No.	113813	Strand	+
Start	207	End	585
Name	OJ000122_66.0419.C18.o1.gp	Method	AAT/GAP
Start	207	End	585
GI	none	Score	681
Exons	207..585		

Seq. No.	54239	Seq. ID	OJ000122_66.0419.C18
Gene No.	113814	Strand	+
Start	801	End	1028
Name	OJ000122_66.0419.C18.o1.gs	Method	GENSCAN
Start	801	End	1028
GI	none	Score	.81
Exons	801..855, 904..1028		

Seq. No.	54240	Seq. ID	OJ000122_66.0419.C23
Gene No.	113815	Strand	+
Start	154	End	305
Name	OJ000122_66.0419.C23.o1.gs	Method	GENSCAN
Start	154	End	305
GI	none	Score	.97
Exons	154..305		

Seq. No.	54240	Seq. ID	OJ000122_66.0419.C23
Gene No.	113816	Strand	-
Start	687	End	1434
Name	OJ000122_66.0419.C23.o2.gs	Method	GENSCAN
Start	687	End	1434
GI	none	Score	.69
Exons	687..848, 948..1216, 1249..1434		

Seq. No.	54241	Seq. ID	OJ000122_66.0419.C25
Gene No.	113817	Strand	-
Start	1	End	713

Name	OJ000122_66.0419.C25.o1.np	Method	AAT/NAP
Start	1	End	482
GI	3894387	Score	344
Exons	1..482		
GI Descrip.	(AF053995) Hcr2-0B [Lycopersicon esculentum]		

Seq. No.	54241	Seq. ID	OJ000122_66.0419.C25
Gene No.	113817	Strand	-
Start	1	End	713
Name	OJ000122_66.0419.C25.o1.tc	Method	TBLASTX:Cress
Start	3	End	500
GI	none	Score	80
Exons	3..500, 3..287, 6..500, 6..482, 6..482, 6..380, 6..431, 6..431, 12..482, 15..491, 15..482, 19..261, 106..357, 106..288, 106..492, 106..270, 241..420, 249..317		

Seq. No.	54241	Seq. ID	OJ000122_66.0419.C25
Gene No.	113817	Strand	-
Start	1	End	713
Name	OJ000122_66.0419.C25.o1.tm	Method	TBLASTX:Maize
Start	6	End	497
GI	none	Score	96
Exons	6..482, 6..431, 6..305, 15..497, 18..380, 106..348, 106..288, 123..482, 241..426, 382..477		

Seq. No.	54241	Seq. ID	OJ000122_66.0419.C25
Gene No.	113817	Strand	-
Start	1	End	713
Name	OJ000122_66.0419.C25.o1.ts	Method	TBLASTX:Soybean
Start	6	End	491
GI	none	Score	124
Exons	6..491, 6..482, 6..431, 6..296, 6..233, 15..482, 22..348, 25..477, 36..482, 106..483, 174..482, 249..320, 382..477		

Seq. No.	54241	Seq. ID	OJ000122_66.0419.C25
Gene No.	113817	Strand	-
Start	1	End	713
Name	OJ000122_66.0419.C25.o1.gs	Method	GENSCAN
Start	95	End	713
GI	none	Score	.72
Exons	95..713		

Seq. No.	54242	Seq. ID	OJ000122_66.0419.C26
Gene No.	113818	Strand	+
Start	204	End	302
Name	OJ000122_66.0419.C26.o1.gs	Method	GENSCAN
Start	204	End	302
GI	none	Score	.78
Exons	204..302		

Seq. No.	54243	Seq. ID	OJ000122_66.0419.C29
Gene No.	113819	Strand	+
Start	241	End	1066
Name	OJ000122_66.0419.C29.o1.tm	Method	TBLASTX:Maize
Start	125	End	1051
GI	none	Score	56
Exons	125..163, 274..378, 844..1041, 849..1049, 851..1051, 860..1048		

Seq. No.	54243	Seq. ID	OJ000122_66.0419.C29
Gene No.	113819	Strand	+
Start	241	End	1066
Name	OJ000122_66.0419.C29.o1.gs	Method	GENSCAN
Start	241	End	1066
GI	none	Score	.52
Exons	241..352, 846..1066		

Seq. No.	54244	Seq. ID	OJ000122_66.0419.C33
Gene No.	113820	Strand	+
Start	1	End	932
Name	OJ000122_66.0419.C33.o1.np	Method	AAT/NAP
Start	1	End	794
GI	6522592	Score	276
Exons	1..160, 417..607, 636..794		
GI Descrip.	(AL133292) receptor protein kinase-like protein [Arabidopsis thaliana]		

Seq. No.	54244	Seq. ID	OJ000122_66.0419.C33
Gene No.	113820	Strand	+
Start	1	End	932
Name	OJ000122_66.0419.C33.o1.gs	Method	GENSCAN
Start	44	End	794
GI	none	Score	.73
Exons	44..160, 588..794		

Seq. No.	54244	Seq. ID	OJ000122_66.0419.C33
Gene No.	113820	Strand	+
Start	1	End	932
Name	OJ000122_66.0419.C33.o1.tm	Method	TBLASTX:Maize
Start	415	End	932
GI	none	Score	166
Exons	415..603, 416..604, 669..788, 879..932		

Seq. No.	54245	Seq. ID	OJ000122_66.0419.C40
Gene No.	113821	Strand	+
Start	249	End	829
Name	OJ000122_66.0419.C40.o1.gs	Method	GENSCAN
Start	249	End	829
GI	none	Score	.8
Exons	249..303, 774..829		

Seq. No.	54246	Seq. ID	OJ000122_66.0419.C43
Gene No.	113822	Strand	-
Start	1	End	1194
Name	OJ000122_66.0419.C43.o1.np	Method	AAT/NAP
Start	1	End	1194
GI	6466937	Score	677
Exons	1..1194		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	54246	Seq. ID	OJ000122_66.0419.C43
Gene No.	113822	Strand	-
Start	1	End	1194
Name	OJ000122_66.0419.C43.o1.tm	Method	TBLASTX:Maize

Start	108	End	642
GI	none	Score	57
Exons	108..281, 281..385, 388..453,	499..642,	503..571

Seq. No.	54246	Seq. ID	OJ000122_66.0419.C43
Gene No.	113822	Strand	-
Start	1	End	1194
Name	OJ000122_66.0419.C43.o2.tm	Method	TBLASTX:Maize
Start	954	End	1192
GI	none	Score	100
Exons	954..1157, 959..1192		

Seq. No.	54247	Seq. ID	OJ000122_66.0419.C44
Gene No.	113823	Strand	+
Start	364	End	701
Name	OJ000122_66.0419.C44.o1.gs	Method	GENSCAN
Start	364	End	666
GI	none	Score	.52
Exons	364..666		

Seq. No.	54247	Seq. ID	OJ000122_66.0419.C44
Gene No.	113823	Strand	+
Start	364	End	701
Name	OJ000122_66.0419.C44.o1.tm	Method	TBLASTX:Maize
Start	566	End	701
GI	none	Score	118
Exons	566..676, 566..697, 567..701		

Seq. No.	54248	Seq. ID	OJ000102_65.0426.C3
Gene No.	113824	Strand	+
Start	1195	End	2744
Name	OJ000102_65.0426.C3.o1.gs	Method	GENSCAN
Start	1195	End	2744
GI	none	Score	.49
Exons	1195..1242, 1544..1659, 2671..2744		

Seq. No.	54249	Seq. ID	OJ000102_65.0426.C4
Gene No.	113825	Strand	+
Start	821	End	4700
Name	OJ000102_65.0426.C4.o1.np	Method	AAT/NAP
Start	821	End	4577
GI	6553935	Score	407
Exons	821..936, 2722..2796, 3780..4577		
GI Descrip.	(AC011915) putative tRNA isopentenyl transferase [Arabidopsis thaliana]		

Seq. No.	54249	Seq. ID	OJ000102_65.0426.C4
Gene No.	113825	Strand	+
Start	821	End	4700
Name	OJ000102_65.0426.C4.o2.gs	Method	GENSCAN
Start	3639	End	4700
GI	none	Score	.82
Exons	3639..4700		

Seq. No.	54249	Seq. ID	OJ000102_65.0426.C4
Gene No.	113825	Strand	+
Start	821	End	4700

Name	OJ000102_65.0426.C4.o1.ts	Method	TBLASTX:Soybean
Start	3777	End	4100
GI	none	Score	185
Exons	3777..3992, 3795..3995, 4053..4100		

Seq. No.	54250	Seq. ID	OJ000102_65.0426.C7
Gene No.	113826	Strand	+
Start	274	End	362
Name	OJ000102_65.0426.C7.o1.gs	Method	GENSCAN
Start	274	End	362
GI	none	Score	.98
Exons	274..362		

Seq. No.	54250	Seq. ID	OJ000102_65.0426.C7
Gene No.	113827	Strand	+
Start	1686	End	2105
Name	OJ000102_65.0426.C7.o1.gp	Method	AAT/GAP
Start	1686	End	2105
GI	2427290	Score	780
Exons	1686..2105		

Seq. No.	54250	Seq. ID	OJ000102_65.0426.C7
Gene No.	113828	Strand	-
Start	2049	End	4337
Name	OJ000102_65.0426.C7.o1.tm	Method	TBLASTX:Maize
Start	1836	End	4337
GI	none	Score	66
Exons	1836..1889, 1848..1889, 1955..2017, 1956..2018, 2061..2174, 2073..2324, 2110..2328, 2182..2328, 4275..4337, 4276..4335		

Seq. No.	54250	Seq. ID	OJ000102_65.0426.C7
Gene No.	113828	Strand	-
Start	2049	End	4337
Name	OJ000102_65.0426.C7.o1.np	Method	AAT/NAP
Start	2045	End	4337
GI	4220481	Score	183
Exons	2045..2261, 3529..3662, 4275..4337		
GI Descrip.	(AC006069) unknown protein [Arabidopsis thaliana]		

Seq. No.	54250	Seq. ID	OJ000102_65.0426.C7
Gene No.	113828	Strand	-
Start	2049	End	4337
Name	OJ000102_65.0426.C7.o2.gs	Method	GENSCAN
Start	2049	End	3662
GI	none	Score	.6
Exons	2049..2327, 3579..3662		

Seq. No.	54250	Seq. ID	OJ000102_65.0426.C7
Gene No.	113828	Strand	-
Start	2049	End	4337
Name	OJ000102_65.0426.C7.o1.tw	Method	TBLASTX:Wheat
Start	2094	End	4337
GI	none	Score	95
Exons	2094..2180, 2094..2327, 2110..2328, 3579..3665, 4267..4335, 4275..4337, 4279..4335		

Seq. No.	54250	Seq. ID	OJ000102_65.0426.C7

Gene No.	113828	Strand	-
Start	2049	End	4337
Name	OJ000102_65.0426.C7.o2.gp	Method	AAT/GAP
Start	2235	End	4337
GI	LIB3431-016-P1-K1-F8	Score	432
Exons	2235..2327, 3579..3662, 4275..4337		
GI Descrip.	'4220481 4.0e-16 (AC006069) unknown protein [Arabidopsis thaliana]'		

Seq. No.	54251	Seq. ID	OJ000102_65.0426.C8
Gene No.	113829	Strand	+
Start	1167	End	1538
Name	OJ000102_65.0426.C8.o1.gs	Method	GENSCAN
Start	1167	End	1538
GI	none	Score	.71
Exons	1167..1538		

Seq. No.	54252	Seq. ID	OJ000102_65.0426.C9
Gene No.	113830	Strand	-
Start	741	End	2931
Name	OJ000102_65.0426.C9.o1.gs	Method	GENSCAN
Start	741	End	2931
GI	none	Score	.66
Exons	741..921, 1411..1504, 1986..2131, 2742..2888, 2920..2931		

Seq. No.	54252	Seq. ID	OJ000102_65.0426.C9
Gene No.	113831	Strand	-
Start	4173	End	4885
Name	OJ000102_65.0426.C9.o2.gs	Method	GENSCAN
Start	4173	End	4885
GI	none	Score	.45
Exons	4173..4508, 4847..4885		

Seq. No.	54252	Seq. ID	OJ000102_65.0426.C9
Gene No.	113832	Strand	-
Start	5315	End	8517
Name	OJ000102_65.0426.C9.o1.gp	Method	AAT/GAP
Start	5315	End	6208
GI	none	Score	1015
Exons	5315..5755, 6085..6208		

Seq. No.	54252	Seq. ID	OJ000102_65.0426.C9
Gene No.	113832	Strand	-
Start	5315	End	8517
Name	OJ000102_65.0426.C9.o1.tm	Method	TBLASTX:Maize
Start	5372	End	8513
GI	none	Score	97
Exons	5372..5446, 5503..5556, 5629..5754, 5643..5756, 6086..6274, 6087..6272, 7051..7215, 7056..7220, 7056..7214, 7634..7744, 7634..7744, 7641..7754, 7641..7772, 8141..8206, 8147..8206, 8151..8207, 8291..8512, 8298..8513, 8299..8511, 8300..8512		

Seq. No.	54252	Seq. ID	OJ000102_65.0426.C9
Gene No.	113832	Strand	-
Start	5315	End	8517
Name	OJ000102_65.0426.C9.o3.gs	Method	GENSCAN
Start	5682	End	8417

GI	none	Score	.92
Exons	5682..5755, 6085..6271, 7062..7212, 7639..7751, 8141..8204, 8299..8417		

Seq. No.	54252	Seq. ID	OJ000102_65.0426.C9
Gene No.	113832	Strand	-
Start	5315	End	8517
Name	OJ000102_65.0426.C9.o1.np	Method	AAT/NAP
Start	5691	End	8510
GI	6729041	Score	447
Exons	5691..5755, 6085..6271, 7062..7212, 7639..7759, 8137..8214, 8297..8510		
GI Descrip.	(AC009177) unknown protein [Arabidopsis thaliana]		

Seq. No.	54252	Seq. ID	OJ000102_65.0426.C9
Gene No.	113832	Strand	-
Start	5315	End	8517
Name	OJ000102_65.0426.C9.o1.ts	Method	TBLASTX:Soybean
Start	6079	End	8517
GI	none	Score	181
Exons	6079..6264, 6086..6274, 6087..6272, 6121..6273, 7056..7208, 7057..7215, 7082..7219, 7638..7748, 8290..8391, 8298..8513, 8299..8511, 8439..8513, 8449..8517		

Seq. No.	54252	Seq. ID	OJ000102_65.0426.C9
Gene No.	113832	Strand	-
Start	5315	End	8517
Name	OJ000102_65.0426.C9.o2.gp	Method	AAT/GAP
Start	7724	End	8408
GI	LIB3434-057-P1-K1-D1	Score	320
Exons	7724..7751, 8141..8204, 8299..8408		
GI Descrip.	'4176420/dbj|BAA37167| 2.0e-11 (AB008097) cytochrome P450 [Arabidopsis thaliana]'		

Seq. No.	54253	Seq. ID	OJ000102_65.0426.C10
Gene No.	113833	Strand	-
Start	1	End	2402
Name	OJ000102_65.0426.C10.o1.np	Method	AAT/NAP
Start	1	End	2402
GI	6729041	Score	696
Exons	1..19, 92..164, 616..864, 965..1132, 1639..1788, 1880..2017, 2183..2402		
GI Descrip.	(AC009177) unknown protein [Arabidopsis thaliana]		

Seq. No.	54253	Seq. ID	OJ000102_65.0426.C10
Gene No.	113833	Strand	-
Start	1	End	2402
Name	OJ000102_65.0426.C10.o2.tm	Method	TBLASTX:Maize
Start	94	End	766
GI	none	Score	69
Exons	94..165, 96..167, 96..167, 643..765, 651..764, 680..766		

Seq. No.	54253	Seq. ID	OJ000102_65.0426.C10
Gene No.	113833	Strand	-
Start	1	End	2402
Name	OJ000102_65.0426.C10.o1.gp	Method	AAT/GAP
Start	95	End	1009

GI	45411_1.R1084	Score	608
Exons	95..164, 616..864, 965..1009		
GI Descrip.	'287938/emb|X54204|CVPRSET5C 6.0e-47 Cloning vector pRSET5c (pBluescript KS plus derivative)'		

Seq. No.	54253	Seq. ID	OJ000102_65.0426.C10
Gene No.	113833	Strand	-
Start	1	End	2402
Name	OJ000102_65.0426.C10.o1.gs	Method	GENSCAN
Start	96	End	2398
GI	none	Score	.81
Exons	96..164, 616..864, 965..1141, 1648..1794, 1886..1943, 2184..2398		

Seq. No.	54253	Seq. ID	OJ000102_65.0426.C10
Gene No.	113833	Strand	-
Start	1	End	2402
Name	OJ000102_65.0426.C10.o2.tc	Method	TBLASTX:Cress
Start	607	End	1003
GI	none	Score	85
Exons	607..864, 670..843, 680..865, 962..1003		

Seq. No.	54253	Seq. ID	OJ000102_65.0426.C10
Gene No.	113833	Strand	-
Start	1	End	2402
Name	OJ000102_65.0426.C10.o1.ts	Method	TBLASTX:Soybean
Start	610	End	1109
GI	none	Score	191
Exons	610..867, 616..864, 617..874, 651..875, 659..871, 771..875, 962..1108, 963..1109		

Seq. No.	54253	Seq. ID	OJ000102_65.0426.C10
Gene No.	113833	Strand	-
Start	1	End	2402
Name	OJ000102_65.0426.C10.o1.tm	Method	TBLASTX:Maize
Start	766	End	2018
GI	none	Score	95
Exons	766..867, 766..864, 770..874, 777..866, 959..1051, 962..1144, 964..1146, 1017..1142, 1100..1144, 1645..1782, 1645..1797, 1880..2017, 1884..2018		

Seq. No.	54253	Seq. ID	OJ000102_65.0426.C10
Gene No.	113833	Strand	-
Start	1	End	2402
Name	OJ000102_65.0426.C10.o1.tc	Method	TBLASTX:Cress
Start	1082	End	2359
GI	none	Score	71
Exons	1082..1144, 1637..1720, 1642..1749, 1648..1749, 1744..1797, 1880..2020, 1884..2018, 2183..2359, 2187..2354		

Seq. No.	54253	Seq. ID	OJ000102_65.0426.C10
Gene No.	113833	Strand	-
Start	1	End	2402
Name	OJ000102_65.0426.C10.o2.ts	Method	TBLASTX:Soybean
Start	1919	End	2362
GI	none	Score	181
Exons	1919..2014, 2180..2362, 2187..2357		

Seq. No.	54254	Seq. ID	OJ000102_65.0426.C11
Gene No.	113834	Strand	+
Start	3040	End	4890
Name	OJ000102_65.0426.C11.o1.gp	Method	AAT/GAP
Start	2937	End	4492
GI	5002837	Score	762
Exons	2937..3083, 4241..4492		
GI Descrip.	2739279/emb|CAA11153| 1.0e-20 (AJ223177) short chain alcohol dehydrogenase [Nicotiana tabacum] >gi_2791348_emb_CAA11154_ (AJ223178) short chain alcohol dehydrogenase [Nicotiana tabacum]		

Seq. No.	54254	Seq. ID	OJ000102_65.0426.C11
Gene No.	113834	Strand	+
Start	3040	End	4890
Name	OJ000102_65.0426.C11.o2.gs	Method	GENSCAN
Start	3040	End	4880
GI	none	Score	.46
Exons	3040..3083, 4313..4880		

Seq. No.	54254	Seq. ID	OJ000102_65.0426.C11
Gene No.	113834	Strand	+
Start	3040	End	4890
Name	OJ000102_65.0426.C11.o2.np	Method	AAT/NAP
Start	4201	End	4890
GI	7431010	Score	552
Exons	4201..4890		
GI Descrip.	probable short chain alcohol dehydrogenase - common tobacco gi|2739279|emb|CAA11153.1| (AJ223177) short chain alcohol dehydrogenase [Nicotiana tabacum] gi|2791348|emb|CAA11154.1| (AJ223178) short chain alcohol dehydrogenase [Nicotiana tabacum]		

Seq. No.	54254	Seq. ID	OJ000102_65.0426.C11
Gene No.	113835	Strand	-
Start	1	End	1894
Name	OJ000102_65.0426.C11.o1.np	Method	AAT/NAP
Start	1	End	1894
GI	6729041	Score	417
Exons	1..238, 519..678, 1126..1281, 1422..1543, 1660..1894		
GI Descrip.	(AC009177) unknown protein [Arabidopsis thaliana]		

Seq. No.	54254	Seq. ID	OJ000102_65.0426.C11
Gene No.	113835	Strand	-
Start	1	End	1894
Name	OJ000102_65.0426.C11.o1.gs	Method	GENSCAN
Start	78	End	1894
GI	none	Score	.71
Exons	78..230, 511..687, 1135..1284, 1422..1482, 1674..1894		

Seq. No.	54254	Seq. ID	OJ000102_65.0426.C11
Gene No.	113835	Strand	-
Start	1	End	1894
Name	OJ000102_65.0426.C11.o2.tm	Method	TBLASTX:Maize
Start	132	End	1541
GI	none	Score	72
Exons	132..233, 132..233, 506..691, 508..693, 520..702, 1132..1233, 1151..1231, 1228..1287, 1229..1297, 1428..1541, 1428..1538		

Seq. No.	54254	Seq. ID	OJ000102_65.0426.C11
Gene No.	113836	Strand	
Start	4221	End	4888
Name	OJ000102_65.0426.C11.o1.tm	Method	TBLASTX:Maize
Start	4221	End	4888
GI	none	Score	239
Exons	4221..4391, 4241..4390, 4242..4391, 4382..4873, 4383..4865, 4864..4887, 4868..4888		

Seq. No.	54254	Seq. ID	OJ000102_65.0426.C11
Gene No.	113836	Strand	
Start	4221	End	4888
Name	OJ000102_65.0426.C11.o1.ts	Method	TBLASTX:Soybean
Start	4228	End	4851
GI	none	Score	71
Exons	4228..4563, 4229..4792, 4236..4850, 4238..4849, 4591..4851		

Seq. No.	54254	Seq. ID	OJ000102_65.0426.C11
Gene No.	113836	Strand	
Start	4221	End	4888
Name	OJ000102_65.0426.C11.o1.tc	Method	TBLASTX:Cress
Start	4232	End	4807
GI	none	Score	141
Exons	4232..4387, 4233..4388, 4404..4511, 4530..4625, 4637..4807, 4692..4805		

Seq. No.	54254	Seq. ID	OJ000102_65.0426.C11
Gene No.	113836	Strand	
Start	4221	End	4888
Name	OJ000102_65.0426.C11.o1.tw	Method	TBLASTX:Wheat
Start	4235	End	4514
GI	none	Score	135
Exons	4235..4390, 4236..4391, 4386..4514, 4472..4513		

Seq. No.	54255	Seq. ID	OJ000102_65.0426.C12
Gene No.	113837	Strand	-
Start	58	End	500
Name	OJ000102_65.0426.C12.o1.gp	Method	AAT/GAP
Start	58	End	500
GI	none	Score	384
Exons	58..258, 473..500		

Seq. No.	54255	Seq. ID	OJ000102_65.0426.C12
Gene No.	113838	Strand	-
Start	852	End	2007
Name	OJ000102_65.0426.C12.o1.np	Method	AAT/NAP
Start	816	End	1999
GI	7406414	Score	643
Exons	816..1386, 1424..1760, 1856..1999		
GI Descrip.	(AL162873) putative protein [Arabidopsis thaliana]		

Seq. No.	54255	Seq. ID	OJ000102_65.0426.C12
Gene No.	113838	Strand	-
Start	852	End	2007
Name	OJ000102_65.0426.C12.o1.gs	Method	GENSCAN
Start	852	End	1999
GI	none	Score	.92

Exons	852..1760, 1856..1999		
Seq. No.	54255	Seq. ID	OJ000102_65.0426.C12
Gene No.	113838	Strand	-
Start	852	End	2007
Name	OJ000102_65.0426.C12.o2.tc	Method	TBLASTX:Cress
Start	1017	End	1499
GI	none	Score	74
Exons	1017..1142, 1027..1137, 1245..1388, 1255..1398, 1273..1392, 1470..1499		
Seq. No.	54255	Seq. ID	OJ000102_65.0426.C12
Gene No.	113838	Strand	-
Start	852	End	2007
Name	OJ000102_65.0426.C12.o1.tm	Method	TBLASTX:Maize
Start	1315	End	2005
GI	none	Score	110
Exons	1315..1395, 1315..1389, 1317..1397, 1417..1539, 1419..1763, 1419..1763, 1561..1764, 1856..1897, 1856..1897, 1860..1904, 1895..2005, 1896..2003, 1909..2004		
Seq. No.	54255	Seq. ID	OJ000102_65.0426.C12
Gene No.	113838	Strand	-
Start	852	End	2007
Name	OJ000102_65.0426.C12.o1.ts	Method	TBLASTX:Soybean
Start	1470	End	1765
GI	none	Score	42
Exons	1470..1502, 1471..1500, 1503..1763, 1504..1764, 1505..1765		
Seq. No.	54255	Seq. ID	OJ000102_65.0426.C12
Gene No.	113838	Strand	-
Start	852	End	2007
Name	OJ000102_65.0426.C12.o1.tc	Method	TBLASTX:Cress
Start	1657	End	2000
GI	none	Score	114
Exons	1657..1764, 1659..1763, 1832..1981, 1856..1999, 1860..2000		
Seq. No.	54255	Seq. ID	OJ000102_65.0426.C12
Gene No.	113838	Strand	-
Start	852	End	2007
Name	OJ000102_65.0426.C12.o2.ts	Method	TBLASTX:Soybean
Start	1871	End	2007
GI	none	Score	135
Exons	1871..1999, 1872..2000, 1888..2007		
Seq. No.	54256	Seq. ID	OJ000102_65.0426.C13
Gene No.	113839	Strand	-
Start	1	End	933
Name	OJ000102_65.0426.C13.o1.np	Method	AAT/NAP
Start	1	End	933
GI	7406414	Score	592
Exons	1..222, 673..933		
GI Descrip.	(AL162873) putative protein [Arabidopsis thaliana]		
Seq. No.	54256	Seq. ID	OJ000102_65.0426.C13
Gene No.	113839	Strand	-
Start	1	End	933

Name	OJ000102_65.0426.C13.o1.ts	Method	TBLASTX:Soybean
Start	1	End	702
GI	none	Score	164
Exons	1..228, 2..223, 670..702		

Seq. No.	54256	Seq. ID	OJ000102_65.0426.C13
Gene No.	113839	Strand	-
Start	1	End	933
Name	OJ000102_65.0426.C13.o1.tw	Method	TBLASTX:Wheat
Start	20	End	711
GI	none	Score	65
Exons	20..70, 20..85, 44..223, 66..224, 67..225, 85..228, 670..711		

Seq. No.	54256	Seq. ID	OJ000102_65.0426.C13
Gene No.	113839	Strand	-
Start	1	End	933
Name	OJ000102_65.0426.C13.o1.gs	Method	GENSCAN
Start	43	End	855
GI	none	Score	.83
Exons	43..222, 673..855		

Seq. No.	54256	Seq. ID	OJ000102_65.0426.C13
Gene No.	113839	Strand	-
Start	1	End	933
Name	OJ000102_65.0426.C13.o1.tm	Method	TBLASTX:Maize
Start	91	End	819
GI	none	Score	163
Exons	91..225, 91..228, 670..768, 672..767, 679..819		

Seq. No.	54257	Seq. ID	OJ000102_65.0426.C15
Gene No.	113840	Strand	+
Start	160	End	723
Name	OJ000102_65.0426.C15.o1.gs	Method	GENSCAN
Start	160	End	723
GI	none	Score	.95
Exons	160..502, 595..674, 718..723		

Seq. No.	54258	Seq. ID	OJ000102_65.0426.C16
Gene No.	113841	Strand	-
Start	1	End	3889
Name	OJ000102_65.0426.C16.o1.np	Method	AAT/NAP
Start	1	End	1733
GI	6983857	Score	421
Exons	1..109, 139..237, 274..469, 591..833, 1007..1572, 1637..1733		
GI Descrip.	(AP001168) hypothetical protein [Oryza sativa]		

Seq. No.	54258	Seq. ID	OJ000102_65.0426.C16
Gene No.	113841	Strand	-
Start	1	End	3889
Name	OJ000102_65.0426.C16.o1.gs	Method	GENSCAN
Start	483	End	3889
GI	none	Score	.66
Exons	483..650, 717..1088, 1142..1426, 1881..1962, 2554..2759, 3688..3889		

Seq. No.	54258	Seq. ID	OJ000102_65.0426.C16
Gene No.	113841	Strand	-

Start	1	End	3889
Name	OJ000102_65.0426.C16.o2.np	Method	AAT/NAP
Start	2316	End	3882
GI	4680186	Score	211
Exons	2316..2367, 3001..3065, 3648..3882		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54259	Seq. ID	OJ000102_65.0426.C17
Gene No.	113842	Strand	-
Start	198	End	1422
Name	OJ000102_65.0426.C17.o1.gs	Method	GENSCAN
Start	198	End	1422
GI	none	Score	.47
Exons	198..347, 1405..1422		

Seq. No.	54260	Seq. ID	OJ000102_65.0426.C18
Gene No.	113843	Strand	+
Start	1	End	742
Name	OJ000102_65.0426.C18.o1.np	Method	AAT/NAP
Start	1	End	742
GI	2498930	Score	117
Exons	1..21, 460..520, 688..742		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi|1203794 (U18774) Sog [Drosophila melanogaster]		

Seq. No.	54260	Seq. ID	OJ000102_65.0426.C18
Gene No.	113843	Strand	+
Start	1	End	742
Name	OJ000102_65.0426.C18.o1.gs	Method	GENSCAN
Start	461	End	732
GI	none	Score	.91
Exons	461..520, 688..732		

Seq. No.	54261	Seq. ID	OJ000102_65.0426.C20
Gene No.	113844	Strand	+
Start	296	End	401
Name	OJ000102_65.0426.C20.o1.gs	Method	GENSCAN
Start	296	End	401
GI	none	Score	.41
Exons	296..401		

Seq. No.	54262	Seq. ID	OJ000102_65.0426.C21
Gene No.	113845	Strand	+
Start	772	End	896
Name	OJ000102_65.0426.C21.o1.np	Method	AAT/NAP
Start	772	End	896
GI	7106528	Score	85
Exons	772..896		
GI Descrip.	(AP001278) EST D40774(S2920) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54263	Seq. ID	OJ000102_65.0426.C22
Gene No.	113846	Strand	+
Start	1	End	1238
Name	OJ000102_65.0426.C22.o1.np	Method	AAT/NAP
Start	1	End	1238
GI	7228457	Score	2056

Exons	1..1238		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		
Seq. No.	54263	Seq. ID	OJ000102_65.0426.C22
Gene No.	113846	Strand	+
Start	1	End	1238
Name	OJ000102_65.0426.C22.o1.gs	Method	GENSCAN
Start	55	End	1101
GI	none	Score	.94
Exons	55..1101		
Seq. No.	54263	Seq. ID	OJ000102_65.0426.C22
Gene No.	113847	Strand	-
Start	1860	End	5757
Name	OJ000102_65.0426.C22.o1.tm	Method	TBLASTX:Maize
Start	109	End	432
GI	none	Score	368
Exons	109..432, 138..419		
Seq. No.	54263	Seq. ID	OJ000102_65.0426.C22
Gene No.	113847	Strand	-
Start	1860	End	5757
Name	OJ000102_65.0426.C22.o1.tw	Method	TBLASTX:Wheat
Start	246	End	627
GI	none	Score	380
Exons	246..596, 247..627		
Seq. No.	54263	Seq. ID	OJ000102_65.0426.C22
Gene No.	113847	Strand	-
Start	1860	End	5757
Name	OJ000102_65.0426.C22.o2.tw	Method	TBLASTX:Wheat
Start	628	End	1229
GI	none	Score	266
Exons	628..912, 633..911, 1103..1225, 1104..1229		
Seq. No.	54263	Seq. ID	OJ000102_65.0426.C22
Gene No.	113847	Strand	-
Start	1860	End	5757
Name	OJ000102_65.0426.C22.o2.tm	Method	TBLASTX:Maize
Start	1097	End	1241
GI	none	Score	184
Exons	1097..1237, 1098..1241		
Seq. No.	54263	Seq. ID	OJ000102_65.0426.C22
Gene No.	113847	Strand	-
Start	1860	End	5757
Name	OJ000102_65.0426.C22.o2.gs	Method	GENSCAN
Start	1860	End	5757
GI	none	Score	.68
Exons	1860..3684, 3734..4623, 4668..4798, 4865..5013, 5639..5757		
Seq. No.	54263	Seq. ID	OJ000102_65.0426.C22
Gene No.	113847	Strand	-
Start	1860	End	5757
Name	OJ000102_65.0426.C22.o2.np	Method	AAT/NAP

Start	1863	End	4994
GI	6907089	Score	4076
Exons	1863..3633, 3734..4994		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	54264	Seq. ID	OJ000102_65.0426.C23
Gene No.	113848	Strand	+
Start	683	End	2982
Name	OJ000102_65.0426.C23.o1.gs	Method	GENSCAN
Start	683	End	2982
GI	none	Score	.54
Exons	683..747, 938..1033, 2002..2437, 2566..2845, 2897..2982		

Seq. No.	54264	Seq. ID	OJ000102_65.0426.C23
Gene No.	113849	Strand	+
Start	5585	End	5875
Name	OJ000102_65.0426.C23.o2.gs	Method	GENSCAN
Start	5585	End	5875
GI	none	Score	.64
Exons	5585..5875		

Seq. No.	54264	Seq. ID	OJ000102_65.0426.C23
Gene No.	113850	Strand	-
Start	693	End	7374
Name	OJ000102_65.0426.C23.o1.np	Method	AAT/NAP
Start	693	End	7374
GI	4680183	Score	113
Exons	693..784, 1390..1509, 7315..7374		
GI Descrip.	(AF111709) gag-pol protein [Oryza sativa subsp. indica]		

Seq. No.	54264	Seq. ID	OJ000102_65.0426.C23
Gene No.	113850	Strand	-
Start	693	End	7374
Name	OJ000102_65.0426.C23.o1.gp	Method	AAT/GAP
Start	6096	End	6354
GI	2315_5.R1084	Score	351
Exons	6096..6354		
GI Descrip.	'6016845/dbj|AP000570.1|AP000570 1.0e-14 Oryza sativa genomic DNA, chromosome 1, clone:P0711E10'		

Seq. No.	54265	Seq. ID	OJ000102_65.0426.C25
Gene No.	113851	Strand	+
Start	1333	End	1438
Name	OJ000102_65.0426.C25.o1.gp	Method	AAT/GAP
Start	1333	End	1438
GI	none	Score	162
Exons	1333..1438		

Seq. No.	54265	Seq. ID	OJ000102_65.0426.C25
Gene No.	113852	Strand	+
Start	1345	End	3004
Name	OJ000102_65.0426.C25.o1.gs	Method	GENSCAN
Start	1345	End	2980
GI	none	Score	.92
Exons	1345..1427, 1477..1612, 2527..2704, 2780..2980		

Seq. No.	54265	Seq. ID	OJ000102_65.0426.C25

Gene No.	113852	Strand	+
Start	1345	End	3004
Name	OJ000102_65.0426.C25.o1.np	Method	AAT/NAP
Start	1345	End	3004
GI	7489782	Score	258
Exons	1345..1494, 2524..2704, 2849..3004		
GI Descrip.	kinase associated protein phosphatase - maize gi|2735008|gb|AAB93832.1| (U81960) kinase associated protein phosphatase [Zea mays]		

Seq. No.	54266	Seq. ID	OJ000102_65.0426.C26
Gene No.	113853	Strand	+
Start	1	End	2990
Name	OJ000102_65.0426.C26.o1.np	Method	AAT/NAP
Start	1	End	2900
GI	7489541	Score	1137
Exons	1..70, 195..353, 780..917, 981..1042, 1196..1331, 1862..1956, 2208..2323, 2404..2533, 2626..2680, 2753..2900		
GI Descrip.	probable kinase associated protein phosphatase - rice gi|3328364|gb|AAC26828.1| (AF075603) kinase associated protein phosphatase [Oryza sativa]		

Seq. No.	54266	Seq. ID	OJ000102_65.0426.C26
Gene No.	113853	Strand	+
Start	1	End	2990
Name	OJ000102_65.0426.C26.o1.gs	Method	GENSCAN
Start	195	End	2990
GI	none	Score	.88
Exons	195..353, 780..917, 981..1042, 1196..1331, 1862..1956, 2208..2323, 2404..2533, 2626..2753, 2920..2990		

Seq. No.	54266	Seq. ID	OJ000102_65.0426.C26
Gene No.	113854	Strand	-
Start	3480	End	5786
Name	OJ000102_65.0426.C26.o2.tm	Method	TBLASTX:Maize
Start	1	End	2662
GI	none	Score	104
Exons	1..69, 2..67, 193..354, 193..294, 201..353, 204..356, 791..910, 806..940, 807..914, 977..1048, 978..1040, 1170..1334, 1196..1333, 1206..1364, 1836..1946, 1859..1954, 1859..1954, 1861..1956, 2200..2328, 2206..2316, 2214..2324, 2399..2533, 2400..2522, 2404..2532, 2624..2662		

Seq. No.	54266	Seq. ID	OJ000102_65.0426.C26
Gene No.	113854	Strand	-
Start	3480	End	5786
Name	OJ000102_65.0426.C26.o1.tc	Method	TBLASTX:Cress
Start	2	End	2874
GI	none	Score	95
Exons	2..67, 10..63, 176..277, 195..326, 196..321, 204..356, 801..917, 806..940, 1193..1309, 1212..1316, 1859..1954, 1861..1953, 2200..2328, 2214..2327, 2402..2497, 2403..2507, 2596..2673, 2615..2683, 2776..2874, 2790..2873		

Seq. No.	54266	Seq. ID	OJ000102_65.0426.C26
Gene No.	113854	Strand	-
Start	3480	End	5786

Name	OJ000102_65.0426.C26.o2.tw	Method	TBLASTX:Wheat
Start	204	End	880
GI	none	Score	210
Exons	204..356, 204..353, 780..806, 801..878, 806..880, 812..880		

Seq. No.	54266	Seq. ID	OJ000102_65.0426.C26
Gene No.	113854	Strand	-
Start	3480	End	5786
Name	OJ000102_65.0426.C26.o1.ts	Method	TBLASTX:Soybean
Start	2214	End	2644
GI	none	Score	105
Exons	2214..2327, 2215..2328, 2402..2473, 2403..2516, 2615..2644		

Seq. No.	54266	Seq. ID	OJ000102_65.0426.C26
Gene No.	113854	Strand	-
Start	3480	End	5786
Name	OJ000102_65.0426.C26.o1.tw	Method	TBLASTX:Wheat
Start	2214	End	2847
GI	none	Score	138
Exons	2214..2324, 2214..2324, 2215..2328, 2402..2533, 2403..2531, 2404..2538, 2409..2537, 2605..2679, 2606..2695, 2794..2847, 2794..2847		

Seq. No.	54266	Seq. ID	OJ000102_65.0426.C26
Gene No.	113854	Strand	-
Start	3480	End	5786
Name	OJ000102_65.0426.C26.o2.gs	Method	GENSCAN
Start	3480	End	3785
GI	none	Score	.46
Exons	3480..3785		

Seq. No.	54266	Seq. ID	OJ000102_65.0426.C26
Gene No.	113854	Strand	-
Start	3480	End	5786
Name	OJ000102_65.0426.C26.o2.np	Method	AAT/NAP
Start	3522	End	5358
GI	6729035	Score	255
Exons	3522..3872, 4251..4416, 5049..5135, 5210..5358		
GI Descrip.	(AC009177) unknown protein [Arabidopsis thaliana]		

Seq. No.	54266	Seq. ID	OJ000102_65.0426.C26
Gene No.	113854	Strand	-
Start	3480	End	5786
Name	OJ000102_65.0426.C26.o3.np	Method	AAT/NAP
Start	3522	End	5786
GI	6729035	Score	313
Exons	3522..3872, 4251..4416, 5049..5135, 5210..5322, 5654..5786		
GI Descrip.	(AC009177) unknown protein [Arabidopsis thaliana]		

Seq. No.	54266	Seq. ID	OJ000102_65.0426.C26
Gene No.	113854	Strand	-
Start	3480	End	5786
Name	OJ000102_65.0426.C26.o1.tm	Method	TBLASTX:Maize
Start	3586	End	3876
GI	none	Score	211
Exons	3586..3786, 3588..3776, 3789..3875, 3790..3876		

Seq. No.	54267	Seq. ID	OJ000102_65.0426.C28
Gene No.	113855	Strand	+
Start	1	End	898
Name	OJ000102_65.0426.C28.o1.np	Method	AAT/NAP
Start	1	End	871
GI	2275213	Score	275
Exons	1..387, 467..603, 736..871		
GI Descrip.	(AC002337) unknown protein [Arabidopsis thaliana]		

Seq. No.	54267	Seq. ID	OJ000102_65.0426.C28
Gene No.	113855	Strand	+
Start	1	End	898
Name	OJ000102_65.0426.C28.o1.gs	Method	GENSCAN
Start	307	End	898
GI	none	Score	.89
Exons	307..387, 476..603, 736..898		

Seq. No.	54267	Seq. ID	OJ000102_65.0426.C28
Gene No.	113856	Strand	-
Start	1180	End	1852
Name	OJ000102_65.0426.C28.o1.tm	Method	TBLASTX:Maize
Start	463	End	850
GI	none	Score	177
Exons	463..603, 473..601, 475..627, 733..837, 733..846, 734..850		

Seq. No.	54267	Seq. ID	OJ000102_65.0426.C28
Gene No.	113856	Strand	-
Start	1180	End	1852
Name	OJ000102_65.0426.C28.o1.tc	Method	TBLASTX:Cress
Start	473	End	853
GI	none	Score	114
Exons	473..598, 517..603, 700..840, 733..852, 734..853		

Seq. No.	54267	Seq. ID	OJ000102_65.0426.C28
Gene No.	113856	Strand	-
Start	1180	End	1852
Name	OJ000102_65.0426.C28.o1.ts	Method	TBLASTX:Soybean
Start	473	End	867
GI	none	Score	104
Exons	473..601, 508..603, 516..602, 712..840, 733..867, 734..850		

Seq. No.	54267	Seq. ID	OJ000102_65.0426.C28
Gene No.	113856	Strand	-
Start	1180	End	1852
Name	OJ000102_65.0426.C28.o2.gs	Method	GENSCAN
Start	1180	End	1852
GI	none	Score	.76
Exons	1180..1248, 1300..1366, 1815..1852		

Seq. No.	54268	Seq. ID	OJ000102_65.0426.C29
Gene No.	113857	Strand	+
Start	821	End	2399
Name	OJ000102_65.0426.C29.o1.gs	Method	GENSCAN
Start	821	End	2399
GI	none	Score	.94
Exons	821..850, 1102..1242, 2223..2399		

Seq. No.	54268	Seq. ID	OJ000102_65.0426.C29
Gene No.	113858	Strand	-
Start	3447	End	5536
Name	OJ000102_65.0426.C29.o2.gs	Method	GENSCAN
Start	3447	End	5536
GI	none	Score	.6
Exons	3447..3574, 4082..4115, 4217..4307, 4366..4474, 4836..4922, 5442..5536		

Seq. No.	54268	Seq. ID	OJ000102_65.0426.C29
Gene No.	113858	Strand	-
Start	3447	End	5536
Name	OJ000102_65.0426.C29.o1.tm	Method	TBLASTX:Maize
Start	3494	End	4923
GI	none	Score	74
Exons	3494..3592, 3501..3593, 4027..4107, 4029..4118, 4029..4118, 4217..4252, 4315..4476, 4362..4475, 4364..4480, 4365..4481, 4624..4728, 4654..4728, 4825..4923, 4833..4922		

Seq. No.	54268	Seq. ID	OJ000102_65.0426.C29
Gene No.	113858	Strand	-
Start	3447	End	5536
Name	OJ000102_65.0426.C29.o1.tc	Method	TBLASTX:Cress
Start	3500	End	4926
GI	none	Score	66
Exons	3500..3592, 3504..3566, 4029..4118, 4048..4116, 4217..4252, 4218..4253, 4315..4476, 4340..4477, 4654..4728, 4825..4923, 4833..4922, 4834..4926		

Seq. No.	54268	Seq. ID	OJ000102_65.0426.C29
Gene No.	113858	Strand	-
Start	3447	End	5536
Name	OJ000102_65.0426.C29.o1.np	Method	AAT/NAP
Start	3506	End	4925
GI	2262169	Score	556
Exons	3506..3574, 4029..4115, 4217..4252, 4366..4474, 4634..4725, 4836..4925		
GI Descrip.	(AC002329) clathrin assembly protein AP19, small subunit [Arabidopsis thaliana]		

Seq. No.	54268	Seq. ID	OJ000102_65.0426.C29
Gene No.	113858	Strand	-
Start	3447	End	5536
Name	OJ000102_65.0426.C29.o1.ts	Method	TBLASTX:Soybean
Start	4393	End	4965
GI	none	Score	84
Exons	4393..4476, 4394..4477, 4631..4672, 4654..4728, 4823..4915, 4825..4923, 4833..4922, 4843..4965		

Seq. No.	54269	Seq. ID	OJ000102_65.0426.C30
Gene No.	113859	Strand	+
Start	102	End	354
Name	OJ000102_65.0426.C30.o1.gs	Method	GENSCAN
Start	102	End	354
GI	none	Score	.5
Exons	102..158, 346..354		

Seq. No.	54270	Seq. ID	OJ000102_65.0426.C31
Gene No.	113860	Strand	-
Start	145	End	1968
Name	OJ000102_65.0426.C31.o1.gs	Method	GENSCAN
Start	145	End	1968
GI	none	Score	.48
Exons	145..897, 1279..1422, 1649..1747, 1930..1968		

Seq. No.	54271	Seq. ID	OJ000102_65.0426.C32
Gene No.	113861	Strand	+
Start	528	End	654
Name	OJ000102_65.0426.C32.o1.gp	Method	AAT/GAP
Start	528	End	654
GI	1664_1.R1084	Score	214
Exons	528..654		
GI Descrip.	'3913240/sp|O24133|CHLD_TOBAC 7.0e-39 MAGNESIUM-CHELATASE SUBUNIT CHLD PRECURSOR (MG-PROTOPORPHYRIN IX CHELATASE) (MG-CHELATASE SUBUNIT D) >gi_2239151_emb_CAA71128_ (Y10022) CHLD magnesium chelatase subunit [Nicotiana tabacum]'		

Seq. No.	54271	Seq. ID	OJ000102_65.0426.C32
Gene No.	113862	Strand	-
Start	531	End	841
Name	OJ000102_65.0426.C32.o1.tc	Method	TBLASTX:Cress
Start	516	End	670
GI	none	Score	67
Exons	516..653, 529..654, 530..670, 542..670		

Seq. No.	54271	Seq. ID	OJ000102_65.0426.C32
Gene No.	113862	Strand	-
Start	531	End	841
Name	OJ000102_65.0426.C32.o1.ts	Method	TBLASTX:Soybean
Start	527	End	654
GI	none	Score	171
Exons	527..652, 529..654		

Seq. No.	54271	Seq. ID	OJ000102_65.0426.C32
Gene No.	113862	Strand	-
Start	531	End	841
Name	OJ000102_65.0426.C32.o1.gs	Method	GENSCAN
Start	531	End	651
GI	none	Score	.88
Exons	531..651		

Seq. No.	54271	Seq. ID	OJ000102_65.0426.C32
Gene No.	113862	Strand	-
Start	531	End	841
Name	OJ000102_65.0426.C32.o1.np	Method	AAT/NAP
Start	531	End	841
GI	6664313	Score	159
Exons	531..654, 822..841		
GI Descrip.	(AC006932) T27G7.20 [Arabidopsis thaliana]		

Seq. No.	54272	Seq. ID	OJ000102_65.0426.C33
Gene No.	113863	Strand	-
Start	1	End	4130
Name	OJ000102_65.0426.C33.o1.gp	Method	AAT/GAP

Start	1	End	576
GI	uC-osf1M202123e09b1	Score	555
Exons	1..92, 380..576		
GI Descrip.	'3913240/sp|O24133|CHLD_TOBAC 7.0e-59 MAGNESIUM-CHELATASE SUBUNIT CHLD PRECURSOR (MG-PROTOPORPHYRIN IX CHELATASE) (MG-CHELATASE SUBUNIT D) >gi_2239151_emb_CAA71128_ (Y10022) CHLD magnesium chelatase subunit [Nicotiana tabacum]'		

Seq. No.	54272	Seq. ID	OJ000102_65.0426.C33
Gene No.	113863	Strand	-
Start	1	End	4130
Name	OJ000102_65.0426.C33.o1.np	Method	AAT/NAP
Start	1	End	4130
GI	3913240	Score	1618
Exons	1..92, 380..579, 650..799, 1112..1207, 1601..1693, 2397..2520, 2681..2997, 3077..3161, 3335..3533, 4017..4130		
GI Descrip.	MAGNESIUM-CHELATASE SUBUNIT CHLD PRECURSOR (MG-PROTOPORPHYRIN IX CHELATASE) (MG-CHELATASE SUBUNIT D) gi|7489191|pir||T02925 protoporphyrin IX magnesium chelatase (EC 4.99.1.-) chain chlD - common tobacco gi|2239151|emb|CAA71128.1| (Y10022) CHLD magnesium chelatase subunit [Nicotiana tabacum]		

Seq. No.	54272	Seq. ID	OJ000102_65.0426.C33
Gene No.	113863	Strand	-
Start	1	End	4130
Name	OJ000102_65.0426.C33.o1.gs	Method	GENSCAN
Start	380	End	3512
GI	none	Score	.92
Exons	380..472, 508..600, 650..799, 1139..1207, 1601..1693, 2397..2520, 2681..2997, 3077..3161, 3376..3512		

Seq. No.	54272	Seq. ID	OJ000102_65.0426.C33
Gene No.	113863	Strand	-
Start	1	End	4130
Name	OJ000102_65.0426.C33.o1.tm	Method	TBLASTX:Maize
Start	758	End	2905
GI	none	Score	156
Exons	758..799, 1106..1210, 1110..1208, 1111..1209, 1601..1696, 1602..1694, 2394..2519, 2394..2522, 2401..2526, 2681..2905, 2681..2869, 2682..2888, 2683..2904		

Seq. No.	54272	Seq. ID	OJ000102_65.0426.C33
Gene No.	113863	Strand	-
Start	1	End	4130
Name	OJ000102_65.0426.C33.o1.tc	Method	TBLASTX:Cress
Start	1109	End	3515
GI	none	Score	148
Exons	1109..1225, 2686..2997, 2699..2995, 2878..3024, 3390..3515		

Seq. No.	54272	Seq. ID	OJ000102_65.0426.C33
Gene No.	113863	Strand	-
Start	1	End	4130
Name	OJ000102_65.0426.C33.o1.ts	Method	TBLASTX:Soybean
Start	2418	End	3539
GI	none	Score	75
Exons	2418..2516, 2418..2522, 2419..2523, 2681..2995, 2682..2963, 2683..3000, 3077..3160, 3081..3161, 3332..3385, 3334..3384,		

3381..3539, 3385..3516

Seq. No.	54272	Seq. ID	OJ000102_65.0426.C33
Gene No.	113863	Strand	-
Start	1	End	4130
Name	OJ000102_65.0426.C33.o2.gp	Method	AAT/GAP
Start	2707	End	3378
GI	2280682	Score	751
Exons	2707..2997, 3077..3161, 3335..3378		
GI Descrip.	3913240/sp|O24133|CHLD_TOBAC 7.0e-59 MAGNESIUM-CHELATASE SUBUNIT CHLD PRECURSOR (MG-PROTOPORPHYRIN IX CHELATASE) (MG-CHELATASE SUBUNIT D) >gi_2239151_emb_CAA71128_ (Y10022) CHLD magnesium chelatase subunit [Nicotiana tabacum]		

Seq. No.	54273	Seq. ID	OJ000102_65.0426.C34
Gene No.	113864	Strand	+
Start	606	End	935
Name	OJ000102_65.0426.C34.o1.gs	Method	GENSCAN
Start	606	End	935
GI	none	Score	.62
Exons	606..770, 802..935		

Seq. No.	54274	Seq. ID	OJ000102_54.0426.C1
Gene No.	113865	Strand	-
Start	367	End	1955
Name	OJ000102_54.0426.C1.o1.gs	Method	GENSCAN
Start	367	End	1919
GI	none	Score	.71
Exons	367..515, 957..1048, 1126..1255, 1357..1463, 1863..1919		

Seq. No.	54274	Seq. ID	OJ000102_54.0426.C1
Gene No.	113865	Strand	-
Start	367	End	1955
Name	OJ000102_54.0426.C1.o1.tw	Method	TBLASTX:Wheat
Start	424	End	1183
GI	none	Score	98
Exons	424..516, 424..501, 425..517, 426..518, 645..749, 656..745, 938..1054, 957..1049, 959..1051, 1123..1182, 1127..1183		

Seq. No.	54274	Seq. ID	OJ000102_54.0426.C1
Gene No.	113865	Strand	-
Start	367	End	1955
Name	OJ000102_54.0426.C1.o1.np	Method	AAT/NAP
Start	429	End	1955
GI	7208771	Score	716
Exons	429..515, 668..737, 957..1048, 1126..1225, 1357..1463, 1688..1752, 1863..1955		
GI Descrip.	(AJ276264) putative Ruv DNA-helicase [Cicer arietinum]		

Seq. No.	54274	Seq. ID	OJ000102_54.0426.C1
Gene No.	113865	Strand	-
Start	367	End	1955
Name	OJ000102_54.0426.C1.o1.ts	Method	TBLASTX:Soybean
Start	995	End	1940
GI	none	Score	47
Exons	995..1051, 996..1052, 1118..1249, 1123..1227, 1124..1228, 1348..1497, 1350..1466, 1685..1744, 1686..1742, 1855..1938,		

1855..1935, 1860..1940

Seq. No.	54274	Seq. ID	OJ000102_54.0426.C1
Gene No.	113865	Strand	-
Start	367	End	1955
Name	OJ000102_54.0426.C1.o1.tc	Method	TBLASTX:Cress
Start	1123	End	1458
GI	none	Score	76
Exons	1123..1227, 1130..1228, 1348..1458, 1350..1457		

Seq. No.	54274	Seq. ID	OJ000102_54.0426.C1
Gene No.	113865	Strand	-
Start	367	End	1955
Name	OJ000102_54.0426.C1.o1.tm	Method	TBLASTX:Maize
Start	1380	End	1955
GI	none	Score	120
Exons	1380..1466, 1380..1466, 1381..1497, 1685..1744, 1686..1742, 1687..1743, 1860..1955, 1861..1953, 1905..1955		

Seq. No.	54275	Seq. ID	OJ000102_54.0426.C2
Gene No.	113866	Strand	-
Start	1	End	2434
Name	OJ000102_54.0426.C2.o1.np	Method	AAT/NAP
Start	1	End	2434
GI	7208771	Score	932
Exons	1..214, 519..668, 832..963, 2010..2198, 2345..2434		
GI Descrip.	(AJ276264) putative Ruv DNA-helicase [Cicer arietinum]		

Seq. No.	54275	Seq. ID	OJ000102_54.0426.C2
Gene No.	113866	Strand	-
Start	1	End	2434
Name	OJ000102_54.0426.C2.o1.tm	Method	TBLASTX:Maize
Start	57	End	2411
GI	none	Score	193
Exons	57..215, 57..215, 58..216, 59..217, 59..217, 492..668, 517..669, 533..670, 829..966, 832..984, 1998..2198, 2008..2118, 2345..2410, 2346..2411		

Seq. No.	54275	Seq. ID	OJ000102_54.0426.C2
Gene No.	113866	Strand	-
Start	1	End	2434
Name	OJ000102_54.0426.C2.o1.gs	Method	GENSCAN
Start	59	End	2117
GI	none	Score	.83
Exons	59..214, 519..668, 832..963, 2010..2117		

Seq. No.	54275	Seq. ID	OJ000102_54.0426.C2
Gene No.	113866	Strand	-
Start	1	End	2434
Name	OJ000102_54.0426.C2.o1.ts	Method	TBLASTX:Soybean
Start	492	End	894
GI	none	Score	151
Exons	492..650, 520..642, 520..654, 645..668, 826..894		

Seq. No.	54275	Seq. ID	OJ000102_54.0426.C2
Gene No.	113866	Strand	-
Start	1	End	2434

Name	OJ000102_54.0426.C2.o1.gp	Method	AAT/GAP
Start	519	End	981
GI	uC-osf1M202020b08b1	Score	464
Exons	519..668, 832..981		
GI Descrip.	'2497541/sp|Q40545|KPYA_TOBAC 8.0e-45 PYRUVATE KINASE ISOZYME A, CHLOROPLAST PRECURSOR >gi_482936_emb_CAA82222_ (Z28373) pyruvate kinase; plastid isozyme [Nicotiana tabacum]'		

Seq. No.	54275	Seq. ID	OJ000102_54.0426.C2
Gene No.	113866	Strand	-
Start	1	End	2434
Name	OJ000102_54.0426.C2.o2.ts	Method	TBLASTX:Soybean
Start	895	End	2411
GI	none	Score	85
Exons	895..966, 902..970, 1998..2201, 2008..2118, 2345..2410, 2346..2411		

Seq. No.	54275	Seq. ID	OJ000102_54.0426.C2
Gene No.	113866	Strand	-
Start	1	End	2434
Name	OJ000102_54.0426.C2.o1.tc	Method	TBLASTX:Cress
Start	1998	End	2410
GI	none	Score	121
Exons	1998..2201, 2008..2118, 2345..2410, 2346..2405		

Seq. No.	54276	Seq. ID	OJ000102_54.0426.C3
Gene No.	113867	Strand	+
Start	1	End	1187
Name	OJ000102_54.0426.C3.o1.np	Method	AAT/NAP
Start	1	End	1187
GI	7485937	Score	839
Exons	1..1187		
GI Descrip.	hypothetical protein F21C20.90 - Arabidopsis thaliana gi|5262214|emb|CAB45840.1| (AL080254) putative protein [Arabidopsis thaliana] gi|7268870|emb|CAB79074.1| (AL161553) putative protein [Arabidopsis thaliana]		

Seq. No.	54276	Seq. ID	OJ000102_54.0426.C3
Gene No.	113867	Strand	+
Start	1	End	1187
Name	OJ000102_54.0426.C3.o1.gs	Method	GENSCAN
Start	49	End	1161
GI	none	Score	.48
Exons	49..1161		

Seq. No.	54276	Seq. ID	OJ000102_54.0426.C3
Gene No.	113867	Strand	+
Start	1	End	1187
Name	OJ000102_54.0426.C3.o1.ts	Method	TBLASTX:Soybean
Start	340	End	1071
GI	none	Score	156
Exons	340..873, 340..573, 349..597, 349..1002, 451..1071, 553..1041, 664..1029, 714..872		

Seq. No.	54276	Seq. ID	OJ000102_54.0426.C3
Gene No.	113867	Strand	+
Start	1	End	1187

Name	OJ000102_54.0426.C3.o1.tm	Method	TBLASTX:Maize
Start	343	End	1062
GI	none	Score	222
Exons	343..1014, 391..582, 520..1062		

Seq. No.	54276	Seq. ID	OJ000102_54.0426.C3
Gene No.	113867	Strand	+
Start	1	End	1187
Name	OJ000102_54.0426.C3.o1.tc	Method	TBLASTX:Cress
Start	349	End	945
GI	none	Score	200
Exons	349..900, 427..945		

Seq. No.	54277	Seq. ID	OJ000102_54.0426.C4
Gene No.	113868	Strand	+
Start	1014	End	1342
Name	OJ000102_54.0426.C4.o1.np	Method	AAT/NAP
Start	1014	End	1342
GI	6649859	Score	133
Exons	1014..1342		
GI Descrip.	(AF009223) kexin-like serine endoprotease [Pneumocystis carinii]		

Seq. No.	54277	Seq. ID	OJ000102_54.0426.C4
Gene No.	113868	Strand	+
Start	1014	End	1342
Name	OJ000102_54.0426.C4.o1.gp	Method	AAT/GAP
Start	1188	End	1342
GI	7606_3.R1084	Score	306
Exons	1188..1342		
GI Descrip.	'4887131/gb|AAD32206.1|AF134732_1 3.0e-51 (AF134732) 60S ribosomal protein L1 [Prunus armeniaca]'		

Seq. No.	54278	Seq. ID	OJ000102_54.0426.C5
Gene No.	113869	Strand	+
Start	1	End	1992
Name	OJ000102_54.0426.C5.o1.gp	Method	AAT/GAP
Start	1	End	1992
GI	7606_1.R1084	Score	2120
Exons	1..558, 1464..1992		
GI Descrip.	'4887131/gb|AAD32206.1|AF134732_1 1.0e-141 (AF134732) 60S ribosomal protein L1 [Prunus armeniaca]'		

Seq. No.	54278	Seq. ID	OJ000102_54.0426.C5
Gene No.	113869	Strand	+
Start	1	End	1992
Name	OJ000102_54.0426.C5.o1.np	Method	AAT/NAP
Start	1	End	1574
GI	6682241	Score	843
Exons	1..558, 1464..1574		
GI Descrip.	(AC016661) putative 60S ribosomal protein L1 [Arabidopsis thaliana]		

Seq. No.	54278	Seq. ID	OJ000102_54.0426.C5
Gene No.	113869	Strand	+
Start	1	End	1992
Name	OJ000102_54.0426.C5.o1.gs	Method	GENSCAN
Start	52	End	1923

GI	none	Score	.79
Exons	52..558, 1464..1572, 1841..1923		

Seq. No.	54278	Seq. ID	OJ000102_54.0426.C5
Gene No.	113870	Strand	+
Start	3104	End	5695
Name	OJ000102_54.0426.C5.o1.tc	Method	TBLASTX:Cress
Start	1	End	1583
GI	none	Score	619
Exons	1..543, 93..146, 109..342, 216..353, 1463..1570, 1464..1583		

Seq. No.	54278	Seq. ID	OJ000102_54.0426.C5
Gene No.	113870	Strand	+
Start	3104	End	5695
Name	OJ000102_54.0426.C5.o1.tm	Method	TBLASTX:Maize
Start	1	End	1598
GI	none	Score	756
Exons	1..549, 2..55, 93..146, 106..342, 213..353, 430..501, 441..560, 444..506, 1466..1570, 1500..1598		

Seq. No.	54278	Seq. ID	OJ000102_54.0426.C5
Gene No.	113870	Strand	+
Start	3104	End	5695
Name	OJ000102_54.0426.C5.o1.ts	Method	TBLASTX:Soybean
Start	1	End	1574
GI	none	Score	632
Exons	1..543, 93..146, 109..342, 216..353, 444..545, 444..506, 1463..1567, 1464..1574, 1500..1568		

Seq. No.	54278	Seq. ID	OJ000102_54.0426.C5
Gene No.	113870	Strand	+
Start	3104	End	5695
Name	OJ000102_54.0426.C5.o1.tw	Method	TBLASTX:Wheat
Start	231	End	508
GI	none	Score	58
Exons	231..290, 234..290, 235..303, 277..342, 286..492, 291..353, 432..503, 443..508, 444..506		

Seq. No.	54278	Seq. ID	OJ000102_54.0426.C5
Gene No.	113870	Strand	+
Start	3104	End	5695
Name	OJ000102_54.0426.C5.o2.gp	Method	AAT/GAP
Start	3104	End	5643
GI	66420_1.R1084	Score	838
Exons	3104..3213, 3694..3719, 4912..5002, 5085..5278, 5568..5643		
GI Descrip.	'2497539/sp|Q43117|KPYA_RICCO 3.0e-52 PYRUVATE KINASE, CHLOROPLAST ISOZYME A PRECURSOR >gi_169703 (M64736) ATP:pyruvate phosphotransferase [Ricinus communis]'		

Seq. No.	54278	Seq. ID	OJ000102_54.0426.C5
Gene No.	113870	Strand	+
Start	3104	End	5695
Name	OJ000102_54.0426.C5.o2.np	Method	AAT/NAP
Start	3130	End	5687
GI	2497539	Score	969
Exons	3130..3373, 3401..3719, 4912..5002, 5085..5278, 5568..5687		
GI Descrip.	PYRUVATE KINASE ISOZYME A, CHLOROPLAST PRECURSOR gi|169703		

(M64736) ATP:pyruvate phosphotransferase [Ricinus communis]

Seq. No.	54278	Seq. ID	OJ000102_54.0426.C5
Gene No.	113870	Strand	+
Start	3104	End	5695
Name	OJ000102_54.0426.C5.o2.gs	Method	GENSCAN
Start	3171	End	5645
GI	none	Score	.89
Exons	3171..3719, 4912..5002, 5085..5278, 5568..5645		

Seq. No.	54278	Seq. ID	OJ000102_54.0426.C5
Gene No.	113870	Strand	+
Start	3104	End	5695
Name	OJ000102_54.0426.C5.o2.tc	Method	TBLASTX:Cress
Start	3407	End	4995
GI	none	Score	443
Exons	3407..3673, 3408..3692, 3408..3692, 4915..4947, 4936..4995		

Seq. No.	54278	Seq. ID	OJ000102_54.0426.C5
Gene No.	113870	Strand	+
Start	3104	End	5695
Name	OJ000102_54.0426.C5.o2.ts	Method	TBLASTX:Soybean
Start	3407	End	3595
GI	none	Score	292
Exons	3407..3595, 3408..3593		

Seq. No.	54278	Seq. ID	OJ000102_54.0426.C5
Gene No.	113870	Strand	+
Start	3104	End	5695
Name	OJ000102_54.0426.C5.o3.tm	Method	TBLASTX:Maize
Start	3449	End	3689
GI	none	Score	391
Exons	3449..3682, 3450..3689, 3612..3689		

Seq. No.	54278	Seq. ID	OJ000102_54.0426.C5
Gene No.	113870	Strand	+
Start	3104	End	5695
Name	OJ000102_54.0426.C5.o2.tm	Method	TBLASTX:Maize
Start	4896	End	5695
GI	none	Score	143
Exons	4896..5000, 4906..5001, 4910..5008, 5084..5278, 5084..5278, 5122..5289, 5565..5615, 5565..5612, 5567..5614, 5609..5662, 5614..5658, 5618..5695, 5658..5687		

Seq. No.	54279	Seq. ID	OJ000102_54.0426.C6
Gene No.	113871	Strand	+
Start	1	End	665
Name	OJ000102_54.0426.C6.o1.np	Method	AAT/NAP
Start	1	End	560
GI	2497541	Score	513
Exons	1..85, 261..560		
GI Descrip.	PYRUVATE KINASE ISOZYME A, CHLOROPLAST PRECURSOR gi|482936|emb|CAA82222.1| (Z28373) pyruvate kinase; plastid isozyme [Nicotiana tabacum]		

Seq. No.	54279	Seq. ID	OJ000102_54.0426.C6
Gene No.	113871	Strand	+

Start	1	End	665
Name	OJ000102_54.0426.C6.o1.gp	Method	AAT/GAP
Start	260	End	665
GI	427371	Score	734
Exons	260..665		
GI Descrip.	2497541/sp|Q40545|KPYA_TOBAC 8.0e-45 PYRUVATE KINASE ISOZYME A, CHLOROPLAST PRECURSOR >gi_482936_emb_CAA82222_ (Z28373) pyruvate kinase; plastid isozyme [Nicotiana tabacum]		

Seq. No.	54279	Seq. ID	OJ000102_54.0426.C6
Gene No.	113872	Strand	-
Start	293	End	597
Name	OJ000102_54.0426.C6.o1.tc	Method	TBLASTX:Cress
Start	2	End	569
GI	none	Score	93
Exons	2..82, 243..560, 260..568, 261..569		

Seq. No.	54279	Seq. ID	OJ000102_54.0426.C6
Gene No.	113872	Strand	-
Start	293	End	597
Name	OJ000102_54.0426.C6.o1.tm	Method	TBLASTX:Maize
Start	2	End	584
GI	none	Score	109
Exons	2..82, 260..562, 261..584, 264..563, 463..573		

Seq. No.	54279	Seq. ID	OJ000102_54.0426.C6
Gene No.	113872	Strand	-
Start	293	End	597
Name	OJ000102_54.0426.C6.o1.ts	Method	TBLASTX:Soybean
Start	2	End	566
GI	none	Score	76
Exons	2..82, 260..565, 261..566		

Seq. No.	54279	Seq. ID	OJ000102_54.0426.C6
Gene No.	113872	Strand	-
Start	293	End	597
Name	OJ000102_54.0426.C6.o1.gs	Method	GENSCAN
Start	293	End	597
GI	none	Score	.41
Exons	293..597		

Seq. No.	54280	Seq. ID	OJ000102_54.0426.C7
Gene No.	113873	Strand	+
Start	189	End	338
Name	OJ000102_54.0426.C7.o1.gs	Method	GENSCAN
Start	189	End	338
GI	none	Score	.66
Exons	189..338		

Seq. No.	54281	Seq. ID	OJ000102_54.0426.C8
Gene No.	113874	Strand	+
Start	2260	End	3376
Name	OJ000102_54.0426.C8.o1.gs	Method	GENSCAN
Start	2260	End	3376
GI	none	Score	.43
Exons	2260..2304, 2824..2889, 3140..3376		

Seq. No.	54282	Seq. ID	OJ000102_54.0426.C16
Gene No.	113875	Strand	+
Start	808	End	1519
Name	OJ000102_54.0426.C16.o1.gs	Method	GENSCAN
Start	808	End	1519
GI	none	Score	.61
Exons	808..974, 1035..1097, 1153..1519		

Seq. No.	54283	Seq. ID	OJ000102_54.0426.C17
Gene No.	113876	Strand	-
Start	590	End	748
Name	OJ000102_54.0426.C17.o1.gs	Method	GENSCAN
Start	590	End	748
GI	none	Score	.91
Exons	590..748		

Seq. No.	54284	Seq. ID	OJ000102_54.0426.C20
Gene No.	113877	Strand	+
Start	21	End	1152
Name	OJ000102_54.0426.C20.o1.np	Method	AAT/NAP
Start	21	End	1152
GI	7228450	Score	130
Exons	21..132, 668..757, 887..1152		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		

Seq. No.	54284	Seq. ID	OJ000102_54.0426.C20
Gene No.	113878	Strand	+
Start	1228	End	2399
Name	OJ000102_54.0426.C20.o1.gs	Method	GENSCAN
Start	1228	End	2399
GI	none	Score	.69
Exons	1228..1342, 1948..2041, 2083..2153, 2206..2399		

Seq. No.	54285	Seq. ID	OJ000102_54.0426.C26
Gene No.	113879	Strand	-
Start	2066	End	2567
Name	OJ000102_54.0426.C26.o1.gs	Method	GENSCAN
Start	2066	End	2567
GI	none	Score	.77
Exons	2066..2071, 2304..2567		

Seq. No.	54286	Seq. ID	OJ000102_54.0426.C27
Gene No.	113880	Strand	+
Start	799	End	1621
Name	OJ000102_54.0426.C27.o1.gs	Method	GENSCAN
Start	799	End	1621
GI	none	Score	.99
Exons	799..957, 1395..1621		

Seq. No.	54286	Seq. ID	OJ000102_54.0426.C27
Gene No.	113881	Strand	-
Start	1057	End	1136
Name	OJ000102_54.0426.C27.o1.gp	Method	AAT/GAP
Start	1057	End	1136
GI	38012_1.R1084	Score	93
Exons	1057..1136		
GI Descrip.	'4097947/gb|U72255|OSU72255 2.0e-23 Oryza sativa		

beta-1,3-glucanase precursor (Gns9) gene, complete cds'

Seq. No.	54287	Seq. ID	OJ000102_54.0426.C28
Gene No.	113882	Strand	+
Start	1	End	1827
Name	OJ000102_54.0426.C28.o1.np	Method	AAT/NAP
Start	1	End	1827
GI	7486965	Score	621
Exons	1..191, 234..701, 1808..1827		
GI Descrip.	hypothetical protein T13J8.80 - Arabidopsis thaliana gi|4455356|emb|CAB36766.1| (AL035524) putative protein [Arabidopsis thaliana] gi|7269651|emb|CAB79599.1| (AL161572) putative protein [Arabidopsis thaliana]		

Seq. No.	54287	Seq. ID	OJ000102_54.0426.C28
Gene No.	113882	Strand	+
Start	1	End	1827
Name	OJ000102_54.0426.C28.o1.tm	Method	TBLASTX:Maize
Start	6	End	290
GI	none	Score	331
Exons	6..257, 6..218, 8..256, 233..286, 237..290		

Seq. No.	54287	Seq. ID	OJ000102_54.0426.C28
Gene No.	113882	Strand	+
Start	1	End	1827
Name	OJ000102_54.0426.C28.o1.gs	Method	GENSCAN
Start	9	End	794
GI	none	Score	.95
Exons	9..794		

Seq. No.	54287	Seq. ID	OJ000102_54.0426.C28
Gene No.	113882	Strand	+
Start	1	End	1827
Name	OJ000102_54.0426.C28.o1.tc	Method	TBLASTX:Cress
Start	24	End	404
GI	none	Score	528
Exons	24..404, 26..310		

Seq. No.	54287	Seq. ID	OJ000102_54.0426.C28
Gene No.	113882	Strand	+
Start	1	End	1827
Name	OJ000102_54.0426.C28.o1.ts	Method	TBLASTX:Soybean
Start	143	End	398
GI	none	Score	339
Exons	143..310, 144..398, 348..386		

Seq. No.	54287	Seq. ID	OJ000102_54.0426.C28
Gene No.	113882	Strand	+
Start	1	End	1827
Name	OJ000102_54.0426.C28.o1.tw	Method	TBLASTX:Wheat
Start	176	End	515
GI	none	Score	300
Exons	176..310, 177..404, 408..464, 410..448, 450..515		

Seq. No.	54287	Seq. ID	OJ000102_54.0426.C28
Gene No.	113882	Strand	+
Start	1	End	1827

Name	OJ000102_54.0426.C28.o2.tm	Method	TBLASTX:Maize
Start	291	End	653
GI	none	Score	133
Exons	291..404, 327..422, 395..466, 408..509, 581..652, 588..653		

Seq. No.	54288	Seq. ID	OJ000102_54.0426.C29
Gene No.	113883	Strand	+
Start	65	End	271
Name	OJ000102_54.0426.C29.o1.gp	Method	AAT/GAP
Start	65	End	271
GI	2428647	Score	360
Exons	65..271		

Seq. No.	54288	Seq. ID	OJ000102_54.0426.C29
Gene No.	113884	Strand	+
Start	370	End	751
Name	OJ000102_54.0426.C29.o2.gp	Method	AAT/GAP
Start	370	End	751
GI	5056001	Score	705
Exons	370..751		

Seq. No.	54288	Seq. ID	OJ000102_54.0426.C29
Gene No.	113885	Strand	-
Start	109	End	985
Name	OJ000102_54.0426.C29.o1.gs	Method	GENSCAN
Start	109	End	985
GI	none	Score	.64
Exons	109..356, 903..985		

Seq. No.	54289	Seq. ID	OJ000102_54.0426.C31
Gene No.	113886	Strand	-
Start	2788	End	2966
Name	OJ000102_54.0426.C31.o1.gs	Method	GENSCAN
Start	2788	End	2966
GI	none	Score	.87
Exons	2788..2966		

Seq. No.	54290	Seq. ID	OJ000102_54.0426.C32
Gene No.	113887	Strand	+
Start	292	End	1688
Name	OJ000102_54.0426.C32.o1.gs	Method	GENSCAN
Start	292	End	1596
GI	none	Score	.5
Exons	292..352, 898..1035, 1501..1596		

Seq. No.	54290	Seq. ID	OJ000102_54.0426.C32
Gene No.	113887	Strand	+
Start	292	End	1688
Name	OJ000102_54.0426.C32.o1.gp	Method	AAT/GAP
Start	1401	End	1688
GI	427610	Score	409
Exons	1401..1613, 1638..1688		
GI Descrip.	5852172/emb|CAB55410.1| 4.0e-11 (AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	54290	Seq. ID	OJ000102_54.0426.C32
Gene No.	113888	Strand	-

Start	1510	End	1671
Name	OJ000102_54.0426.C32.o1.np	Method	AAT/NAP
Start	1510	End	1671
GI	5852172	Score	132
Exons	1510..1671		
GI Descrip.	(AL117265) zhb0002.1 [Oryza sativa]		

Seq. No.	54291	Seq. ID	OJ000102_54.0426.C33
Gene No.	113889	Strand	+
Start	314	End	1568
Name	OJ000102_54.0426.C33.o1.gs	Method	GENSCAN
Start	314	End	1568
GI	none	Score	.8
Exons	314..401, 1399..1568		

Seq. No.	54292	Seq. ID	OJ000102_54.0426.C34
Gene No.	113890	Strand	-
Start	748	End	1402
Name	OJ000102_54.0426.C34.o1.gs	Method	GENSCAN
Start	748	End	1402
GI	none	Score	.68
Exons	748..858, 988..1162, 1188..1402		

Seq. No.	54293	Seq. ID	OJ000102_54.0426.C35
Gene No.	113891	Strand	+
Start	1	End	1276
Name	OJ000102_54.0426.C35.o1.np	Method	AAT/NAP
Start	1	End	1276
GI	4585901	Score	402
Exons	1..80, 342..506, 629..854, 941..1276		
GI Descrip.	(AC007133) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54293	Seq. ID	OJ000102_54.0426.C35
Gene No.	113891	Strand	+
Start	1	End	1276
Name	OJ000102_54.0426.C35.o1.gs	Method	GENSCAN
Start	210	End	1215
GI	none	Score	.57
Exons	210..374, 401..583, 661..825, 836..854, 941..1215		

Seq. No.	54293	Seq. ID	OJ000102_54.0426.C35
Gene No.	113891	Strand	+
Start	1	End	1276
Name	OJ000102_54.0426.C35.o1.gp	Method	AAT/GAP
Start	552	End	857
GI	uC-osflM202062a11b1	Score	375
Exons	552..583, 661..857		
GI Descrip.	'5852172/emb|CAB55410.1| 4.0e-11 (AL117265) zhb0002.1 [Oryza sativa]'		

Seq. No.	54293	Seq. ID	OJ000102_54.0426.C35
Gene No.	113891	Strand	+
Start	1	End	1276
Name	OJ000102_54.0426.C35.o1.tw	Method	TBLASTX:Wheat
Start	654	End	1047
GI	none	Score	208
Exons	654..824, 655..825, 827..859, 937..1047, 1000..1047		

Seq. No.	54293	Seq. ID	OJ000102_54.0426.C35
Gene No.	113891	Strand	+
Start	1	End	1276
Name	OJ000102_54.0426.C35.o1.tc	Method	TBLASTX:Cress
Start	658	End	1209
GI	none	Score	58
Exons	658..750, 827..859, 964..1068, 1128..1208, 1135..1209		

Seq. No.	54293	Seq. ID	OJ000102_54.0426.C35
Gene No.	113891	Strand	+
Start	1	End	1276
Name	OJ000102_54.0426.C35.o1.tm	Method	TBLASTX:Maize
Start	658	End	1098
GI	none	Score	133
Exons	658..825, 827..856, 937..975, 970..1098, 1000..1083, 1023..1094		

Seq. No.	54293	Seq. ID	OJ000102_54.0426.C35
Gene No.	113891	Strand	+
Start	1	End	1276
Name	OJ000102_54.0426.C35.o1.ts	Method	TBLASTX:Soybean
Start	676	End	1220
GI	none	Score	115
Exons	676..825, 827..856, 964..1212, 1000..1215, 1023..1220		

Seq. No.	54294	Seq. ID	OJ000102_54.0426.C37
Gene No.	113892	Strand	+
Start	607	End	964
Name	OJ000102_54.0426.C37.o1.gs	Method	GENSCAN
Start	607	End	964
GI	none	Score	.46
Exons	607..964		

Seq. No.	54294	Seq. ID	OJ000102_54.0426.C37
Gene No.	113892	Strand	+
Start	607	End	964
Name	OJ000102_54.0426.C37.o1.np	Method	AAT/NAP
Start	781	End	957
GI	6498424	Score	98
Exons	781..957		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	54295	Seq. ID	OJ000102_54.0426.C41
Gene No.	113893	Strand	-
Start	1049	End	1123
Name	OJ000102_54.0426.C41.o1.gs	Method	GENSCAN
Start	1049	End	1123
GI	none	Score	.5
Exons	1049..1123		

Seq. No.	54296	Seq. ID	OJ000102_54.0426.C42
Gene No.	113894	Strand	+
Start	10	End	1475
Name	OJ000102_54.0426.C42.o1.gs	Method	GENSCAN
Start	10	End	1475
GI	none	Score	.71
Exons	10..100, 475..536, 1356..1475		

Seq. No.	54297	Seq. ID	OJ000102_54.0426.C43
Gene No.	113895	Strand	+
Start	227	End	670
Name	OJ000102_54.0426.C43.o1.gp	Method	AAT/GAP
Start	227	End	670
GI	none	Score	854
Exons	227..670		

Seq. No.	54297	Seq. ID	OJ000102_54.0426.C43
Gene No.	113895	Strand	+
Start	227	End	670
Name	OJ000102_54.0426.C43.o1.gs	Method	GENSCAN
Start	565	End	668
GI	none	Score	1
Exons	565..668		

Seq. No.	54298	Seq. ID	OJ000102_54.0426.C44
Gene No.	113896	Strand	+
Start	1	End	1248
Name	OJ000102_54.0426.C44.o1.np	Method	AAT/NAP
Start	1	End	1248
GI	6598487	Score	247
Exons	1..145, 239..356, 449..513, 1160..1248		
GI Descrip.	(AC005770) putative guanylate binding protein [Arabidopsis thaliana]		

Seq. No.	54298	Seq. ID	OJ000102_54.0426.C44
Gene No.	113896	Strand	+
Start	1	End	1248
Name	OJ000102_54.0426.C44.o1.tm	Method	TBLASTX:Maize
Start	127	End	650
GI	none	Score	39
Exons	127..150, 235..276, 274..357, 287..361, 288..356, 306..365, 307..366, 335..367, 446..508, 447..509, 447..512, 586..648, 588..650		

Seq. No.	54298	Seq. ID	OJ000102_54.0426.C44
Gene No.	113896	Strand	+
Start	1	End	1248
Name	OJ000102_54.0426.C44.o1.gp	Method	AAT/GAP
Start	203	End	572
GI	42393_1.R1084	Score	276
Exons	203..356, 449..505, 548..572		
GI Descrip.	'4585903/gb|AAD25565.1|AC007133_7 9.0e-21 (AC007133) putative guanylate binding protein [Arabidopsis thaliana]'		

Seq. No.	54298	Seq. ID	OJ000102_54.0426.C44
Gene No.	113896	Strand	+
Start	1	End	1248
Name	OJ000102_54.0426.C44.o1.gs	Method	GENSCAN
Start	239	End	693
GI	none	Score	.9
Exons	239..356, 449..506, 586..693		

Seq. No.	54299	Seq. ID	OJ000102_54.0426.C45
Gene No.	113897	Strand	+

Start	58	End	916
Name	OJ000102_54.0426.C45.o1.tm	Method	TBLASTX:Maize
Start	1	End	916
GI	none	Score	248
Exons	1..210, 4..210, 147..233, 701..916, 708..911, 709..912		

Seq. No.	54299	Seq. ID	OJ000102_54.0426.C45
Gene No.	113897	Strand	+
Start	58	End	916
Name	OJ000102_54.0426.C45.o1.tw	Method	TBLASTX:Wheat
Start	1	End	874
GI	none	Score	248
Exons	1..210, 4..210, 701..874, 709..873		

Seq. No.	54299	Seq. ID	OJ000102_54.0426.C45
Gene No.	113897	Strand	+
Start	58	End	916
Name	OJ000102_54.0426.C45.o1.gs	Method	GENSCAN
Start	58	End	913
GI	none	Score	.98
Exons	58..209, 568..586, 701..913		

Seq. No.	54300	Seq. ID	OJ000102_54.0426.C51
Gene No.	113898	Strand	
Start	310	End	756
Name	OJ000102_54.0426.C51.o1.tm	Method	TBLASTX:Maize
Start	310	End	756
GI	none	Score	135
Exons	310..393, 311..394, 312..395, 391..588, 392..589, 641..736, 658..756, 658..735, 662..736		

Seq. No.	54301	Seq. ID	OJ000102_54.0426.C53
Gene No.	113899	Strand	-
Start	139	End	2721
Name	OJ000102_54.0426.C53.o1.gs	Method	GENSCAN
Start	139	End	2393
GI	none	Score	.97
Exons	139..483, 1024..1149, 1239..1314, 1931..2138, 2300..2393		

Seq. No.	54301	Seq. ID	OJ000102_54.0426.C53
Gene No.	113899	Strand	-
Start	139	End	2721
Name	OJ000102_54.0426.C53.o1.np	Method	AAT/NAP
Start	158	End	2721
GI	2130145	Score	400
Exons	158..483, 1024..1149, 1239..1314, 1931..2165, 2702..2721		
GI Descrip.	seed storage protein opaque-2 - maize gi|1144536 (U35063) opaque-2 heterodimerizing protein 1b [Zea mays]		

Seq. No.	54301	Seq. ID	OJ000102_54.0426.C53
Gene No.	113899	Strand	-
Start	139	End	2721
Name	OJ000102_54.0426.C53.o1.tm	Method	TBLASTX:Maize
Start	1021	End	2155
GI	none	Score	116
Exons	1021..1152, 1021..1152, 1235..1315, 1237..1317, 1238..1315, 1956..2009, 1966..2010, 2027..2155, 2038..2142		

Seq. No.	54302	Seq. ID	OJ000102_54.0426.C54
Gene No.	113900	Strand	-
Start	1	End	511
Name	OJ000102_54.0426.C54.o1.np	Method	AAT/NAP
Start	1	End	511
GI	7489532	Score	218
Exons	1..301, 344..511		
GI Descrip.	probable DNA binding protein - rice gi|1783305|dbj|BAA11431.1| (D78609) bZIP protein [Oryza sativa]		

Seq. No.	54302	Seq. ID	OJ000102_54.0426.C54
Gene No.	113900	Strand	-
Start	1	End	511
Name	OJ000102_54.0426.C54.o1.gs	Method	GENSCAN
Start	89	End	511
GI	none	Score	.83
Exons	89..511		

Seq. No.	54303	Seq. ID	OJ000102_54.0426.C60
Gene No.	113901	Strand	+
Start	1	End	344
Name	OJ000102_54.0426.C60.o1.gp	Method	AAT/GAP
Start	1	End	344
GI	none	Score	676
Exons	1..344		

Seq. No.	54303	Seq. ID	OJ000102_54.0426.C60
Gene No.	113902	Strand	-
Start	657	End	956
Name	OJ000102_54.0426.C60.o1.gs	Method	GENSCAN
Start	657	End	956
GI	none	Score	.95
Exons	657..956		

Seq. No.	54303	Seq. ID	OJ000102_54.0426.C60
Gene No.	113903	Strand	-
Start	1925	End	2829
Name	OJ000102_54.0426.C60.o2.gs	Method	GENSCAN
Start	1925	End	2829
GI	none	Score	.69
Exons	1925..1953, 2080..2140, 2306..2346, 2436..2568, 2765..2829		

Seq. No.	54304	Seq. ID	OJ000102_54.0426.C61
Gene No.	113904	Strand	-
Start	340	End	781
Name	OJ000102_54.0426.C61.o1.np	Method	AAT/NAP
Start	340	End	781
GI	7485542	Score	148
Exons	340..573, 703..781		
GI Descrip.	hypothetical protein F16B22.20 - Arabidopsis thaliana gi|3341691|gb|AAC27473.1| (AC003672) putative heterogeneous nuclear ribonucleoprotein [Arabidopsis thaliana]		

Seq. No.	54304	Seq. ID	OJ000102_54.0426.C61
Gene No.	113904	Strand	-
Start	340	End	781

Name	OJ000102_54.0426.C61.o1.tm	Method	TBLASTX:Maize
Start	352	End	573
GI	none	Score	186
Exons	352..573		

Seq. No.	54304	Seq. ID	OJ000102_54.0426.C61
Gene No.	113904	Strand	-
Start	340	End	781
Name	OJ000102_54.0426.C61.o1.gs	Method	GENSCAN
Start	417	End	573
GI	none	Score	.6
Exons	417..573		

Seq. No.	54305	Seq. ID	OJ000102_54.0426.C62
Gene No.	113905	Strand	+
Start	539	End	791
Name	OJ000102_54.0426.C62.o1.gs	Method	GENSCAN
Start	539	End	791
GI	none	Score	.81
Exons	539..560, 664..791		

Seq. No.	54305	Seq. ID	OJ000102_54.0426.C62
Gene No.	113906	Strand	-
Start	618	End	797
Name	OJ000102_54.0426.C62.o1.np	Method	AAT/NAP
Start	618	End	797
GI	6010668	Score	163
Exons	618..797		
GI Descrip.	(AF181987) 37 kDa chloroplast inner membrane protein [Petunia x hybrida]		

Seq. No.	54306	Seq. ID	OJ000102_54.0426.C63
Gene No.	113907	Strand	-
Start	1	End	563
Name	OJ000102_54.0426.C63.o1.np	Method	AAT/NAP
Start	1	End	487
GI	7489166	Score	537
Exons	1..487		
GI Descrip.	membrane protein, 37K, precursor, chloroplast inner envelope - common tobacco gi|1419090|emb|CAA64422.1| (X94968) 37kDa chloroplast inner envelope membrane polypeptide precursor [Nicotiana tabacum]		

Seq. No.	54306	Seq. ID	OJ000102_54.0426.C63
Gene No.	113907	Strand	-
Start	1	End	563
Name	OJ000102_54.0426.C63.o1.gs	Method	GENSCAN
Start	65	End	327
GI	none	Score	.73
Exons	65..327		

Seq. No.	54306	Seq. ID	OJ000102_54.0426.C63
Gene No.	113907	Strand	-
Start	1	End	563
Name	OJ000102_54.0426.C63.o1.tc	Method	TBLASTX:Cress
Start	65	End	519
GI	none	Score	89

Exons	65..211, 67..519, 70..447, 335..454		
Seq. No.	54306	Seq. ID	OJ000102_54.0426.C63
Gene No.	113907	Strand	-
Start	1	End	563
Name	OJ000102_54.0426.C63.o1.tm	Method	TBLASTX:Maize
Start	65	End	563
GI	none	Score	140
Exons	65..226, 67..468, 76..426, 335..445, 525..563, 529..558		
Seq. No.	54306	Seq. ID	OJ000102_54.0426.C63
Gene No.	113907	Strand	-
Start	1	End	563
Name	OJ000102_54.0426.C63.o1.ts	Method	TBLASTX:Soybean
Start	65	End	471
GI	none	Score	105
Exons	65..226, 67..471, 79..462, 335..466		
Seq. No.	54307	Seq. ID	OJ000102_54.0426.C64
Gene No.	113908	Strand	-
Start	227	End	1094
Name	OJ000102_54.0426.C64.o1.gs	Method	GENSCAN
Start	227	End	327
GI	none	Score	.46
Exons	227..327		
Seq. No.	54307	Seq. ID	OJ000102_54.0426.C64
Gene No.	113908	Strand	-
Start	227	End	1094
Name	OJ000102_54.0426.C64.o1.np	Method	AAT/NAP
Start	227	End	1094
GI	4309741	Score	131
Exons	227..321, 993..1094		
GI Descrip.	(AC006439) hypothetical protein [Arabidopsis thaliana]		
Seq. No.	54308	Seq. ID	OJ000102_54.0426.C67
Gene No.	113909	Strand	+
Start	1	End	1345
Name	OJ000102_54.0426.C67.o1.np	Method	AAT/NAP
Start	1	End	1345
GI	6466937	Score	920
Exons	1..1345		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		
Seq. No.	54308	Seq. ID	OJ000102_54.0426.C67
Gene No.	113909	Strand	+
Start	1	End	1345
Name	OJ000102_54.0426.C67.o1.gs	Method	GENSCAN
Start	74	End	1329
GI	none	Score	.89
Exons	74..155, 179..1329		
Seq. No.	54308	Seq. ID	OJ000102_54.0426.C67
Gene No.	113909	Strand	+
Start	1	End	1345
Name	OJ000102_54.0426.C67.o1.tm	Method	TBLASTX:Maize

Start	119	End	537
GI	none	Score	70
Exons	119..208, 184..537, 258..518		

Seq. No.	54308	Seq. ID	OJ000102_54.0426.C67
Gene No.	113909	Strand	+
Start	1	End	1345
Name	OJ000102_54.0426.C67.o1.ts	Method	TBLASTX:Soybean
Start	373	End	594
GI	none	Score	204
Exons	373..594, 375..497		

Seq. No.	54308	Seq. ID	OJ000102_54.0426.C67
Gene No.	113909	Strand	+
Start	1	End	1345
Name	OJ000102_54.0426.C67.o1.tw	Method	TBLASTX:Wheat
Start	373	End	765
GI	none	Score	252
Exons	373..765		

Seq. No.	54308	Seq. ID	OJ000102_54.0426.C67
Gene No.	113909	Strand	+
Start	1	End	1345
Name	OJ000102_54.0426.C67.o2.tm	Method	TBLASTX:Maize
Start	640	End	936
GI	none	Score	184
Exons	640..789, 645..743, 670..789, 787..936, 804..929		

Seq. No.	54308	Seq. ID	OJ000102_54.0426.C67
Gene No.	113909	Strand	+
Start	1	End	1345
Name	OJ000102_54.0426.C67.o3.tm	Method	TBLASTX:Maize
Start	1030	End	1263
GI	none	Score	209
Exons	1030..1263, 1065..1262		

Seq. No.	54309	Seq. ID	OJ000102_54.0426.C68
Gene No.	113910	Strand	-
Start	204	End	734
Name	OJ000102_54.0426.C68.o1.gs	Method	GENSCAN
Start	204	End	734
GI	none	Score	.61
Exons	204..327, 652..734		

Seq. No.	54310	Seq. ID	OJ000102_54.0426.C75
Gene No.	113911	Strand	+
Start	172	End	2380
Name	OJ000102_54.0426.C75.o1.np	Method	AAT/NAP
Start	172	End	1695
GI	7437314	Score	269
Exons	172..371, 638..662, 750..788, 903..1018, 1572..1695		
GI Descrip.	peptidylprolyl isomerase (EC 5.2.1.8) - Synechocystis sp. (PCC 6803) gi|1652923|dbj|BAA17841.1| (D90909) peptidyl-prolyl cis-trans isomerase [Synechocystis sp.]		

Seq. No.	54310	Seq. ID	OJ000102_54.0426.C75
Gene No.	113911	Strand	+

Start	172	End	2380
Name	OJ000102_54.0426.C75.o2.np	Method	AAT/NAP
Start	329	End	2380
GI	7486628	Score	267
Exons	329..371, 725..808, 1514..1759, 1888..2149, 2242..2380		
GI Descrip.	hypothetical protein F8B4.120 - Arabidopsis thaliana gi|4049344|emb|CAA22569.1| (AL034567) putative protein [Arabidopsis thaliana] gi|7270146|emb|CAB79959.1| (AL161581) putative protein [Arabidopsis thaliana]		

Seq. No.	54310	Seq. ID	OJ000102_54.0426.C75
Gene No.	113911	Strand	+
Start	172	End	2380
Name	OJ000102_54.0426.C75.o1.gs	Method	GENSCAN
Start	339	End	2336
GI	none	Score	.92
Exons	339..371, 1594..1726, 1807..2134, 2224..2336		

Seq. No.	54310	Seq. ID	OJ000102_54.0426.C75
Gene No.	113911	Strand	+
Start	172	End	2380
Name	OJ000102_54.0426.C75.o1.tm	Method	TBLASTX:Maize
Start	749	End	2345
GI	none	Score	57
Exons	749..784, 906..950, 907..948, 950..1018, 951..1019, 1569..1691, 1572..1694, 1573..1710, 1697..1744, 1698..1733, 1806..1907, 1879..1953, 1987..2061, 1989..2135, 1990..2142, 2224..2322, 2271..2306, 2304..2345		

Seq. No.	54311	Seq. ID	OJ000102_54.0426.C76
Gene No.	113912	Strand	+
Start	388	End	894
Name	OJ000102_54.0426.C76.o1.tm	Method	TBLASTX:Maize
Start	386	End	859
GI	none	Score	69
Exons	386..448, 391..465, 442..492, 445..495, 471..659, 493..705, 499..699, 500..700, 774..857, 775..858, 776..859		

Seq. No.	54311	Seq. ID	OJ000102_54.0426.C76
Gene No.	113912	Strand	+
Start	388	End	894
Name	OJ000102_54.0426.C76.o1.gs	Method	GENSCAN
Start	388	End	894
GI	none	Score	.55
Exons	388..696, 777..894		

Seq. No.	54311	Seq. ID	OJ000102_54.0426.C76
Gene No.	113912	Strand	+
Start	388	End	894
Name	OJ000102_54.0426.C76.o1.ts	Method	TBLASTX:Soybean
Start	503	End	867
GI	none	Score	176
Exons	503..685, 536..643, 576..683, 796..867		

Seq. No.	54311	Seq. ID	OJ000102_54.0426.C76
Gene No.	113912	Strand	+
Start	388	End	894

Name	OJ000102_54.0426.C76.o1.gp	Method	AAT/GAP
Start	668	End	857
GI	287063	Score	180
Exons	668..696, 777..857		

Seq. No.	54312	Seq. ID	OJ000102_54.0426.C80
Gene No.	113913	Strand	+
Start	71	End	255
Name	OJ000102_54.0426.C80.o1.gs	Method	GENSCAN
Start	71	End	255
GI	none	Score	.84
Exons	71..255		

Seq. No.	54312	Seq. ID	OJ000102_54.0426.C80
Gene No.	113914	Strand	-
Start	475	End	1132
Name	OJ000102_54.0426.C80.o2.gs	Method	GENSCAN
Start	475	End	1132
GI	none	Score	.48
Exons	475..677, 1015..1132		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113915	Strand	+
Start	216	End	1841
Name	OJ000102_54.0426.C81.o1.np	Method	AAT/NAP
Start	216	End	708
GI	7288000	Score	150
Exons	216..316, 438..708		
GI Descrip.	(AL138646) putative protein [Arabidopsis thaliana]		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113915	Strand	+
Start	216	End	1841
Name	OJ000102_54.0426.C81.o1.gs	Method	GENSCAN
Start	383	End	1841
GI	none	Score	.73
Exons	383..676, 1356..1486, 1569..1841		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113916	Strand	+
Start	7885	End	9172
Name	OJ000102_54.0426.C81.o2.gp	Method	AAT/GAP
Start	7798	End	8811
GI	717_2.R1084	Score	1349
Exons	7798..8011, 8092..8342, 8461..8811		
GI Descrip.	'3264596 9.0e-98 (AF057183) putative tonoplast aquaporin [Zea mays]'		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113916	Strand	+
Start	7885	End	9172
Name	OJ000102_54.0426.C81.o3.gp	Method	AAT/GAP
Start	7831	End	9172
GI	717_2.R1084	Score	1319
Exons	7831..8011, 8092..8342, 8461..8821, 9151..9172		
GI Descrip.	'3264596 9.0e-98 (AF057183) putative tonoplast aquaporin [Zea mays]'		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113916	Strand	+
Start	7885	End	9172
Name	OJ000102_54.0426.C81.o2.np	Method	AAT/NAP
Start	7885	End	8826
GI	7441255	Score	1091
Exons	7885..8011, 8092..8342, 8461..8826		
GI Descrip.	probable tonoplast aquaporin - maize gi|3264596|gb|AAC24569.1| (AF057183) putative tonoplast aquaporin [Zea mays]		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113916	Strand	+
Start	7885	End	9172
Name	OJ000102_54.0426.C81.o3.gs	Method	GENSCAN
Start	7885	End	8829
GI	none	Score	.97
Exons	7885..8011, 8092..8342, 8461..8829		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113916	Strand	+
Start	7885	End	9172
Name	OJ000102_54.0426.C81.o4.gp	Method	AAT/GAP
Start	8557	End	9080
GI	717_4.R1084	Score	1026
Exons	8557..9080		
GI Descrip.	'3264596 1.0e-38 (AF057183) putative tonoplast aquaporin [Zea mays]'		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113917	Strand	+
Start	12977	End	16730
Name	OJ000102_54.0426.C81.o4.gs	Method	GENSCAN
Start	12977	End	16547
GI	none	Score	.75
Exons	12977..12990, 14409..14478, 14812..14916, 14973..16547		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113917	Strand	+
Start	12977	End	16730
Name	OJ000102_54.0426.C81.o7.np	Method	AAT/NAP
Start	14308	End	16730
GI	5042454	Score	2275
Exons	14308..14458, 14812..14916, 14973..16386, 16712..16730		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113917	Strand	+
Start	12977	End	16730
Name	OJ000102_54.0426.C81.o6.np	Method	AAT/NAP
Start	14991	End	16730
GI	7228457	Score	2172
Exons	14991..15357, 15419..16502, 16700..16730		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113918	Strand	-
Start	4663	End	6630
Name	OJ000102_54.0426.C81.o2.gs	Method	GENSCAN
Start	4663	End	6630
GI	none	Score	.49
Exons	4663..4891, 5253..5461, 5498..5583, 6594..6630		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113919	Strand	-
Start	9602	End	16730
Name	OJ000102_54.0426.C81.o1.tm	Method	TBLASTX:Maize
Start	7878	End	8829
GI	none	Score	204
Exons	7878..8030, 7882..8031, 8071..8175, 8090..8347, 8091..8342, 8460..8792, 8461..8793, 8722..8793, 8790..8828, 8791..8829		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113919	Strand	-
Start	9602	End	16730
Name	OJ000102_54.0426.C81.o1.ts	Method	TBLASTX:Soybean
Start	7884	End	8819
GI	none	Score	170
Exons	7884..8036, 7885..8037, 8052..8363, 8096..8332, 8484..8819, 8485..8808		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113919	Strand	-
Start	9602	End	16730
Name	OJ000102_54.0426.C81.o1.tc	Method	TBLASTX:Cress
Start	7885	End	8808
GI	none	Score	161
Exons	7885..8037, 7893..8021, 8052..8339, 8111..8338, 8461..8484, 8481..8795, 8482..8808		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113919	Strand	-
Start	9602	End	16730
Name	OJ000102_54.0426.C81.o1.tw	Method	TBLASTX:Wheat
Start	7894	End	16486
GI	none	Score	148
Exons	7894..8022, 7896..8021, 8052..8363, 8094..8333, 8105..8353, 8460..8801, 8461..8775, 16331..16486		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113919	Strand	-
Start	9602	End	16730
Name	OJ000102_54.0426.C81.o3.np	Method	AAT/NAP
Start	9602	End	16730
GI	7510076	Score	114
Exons	9602..9719, 13402..13637, 16704..16730		
GI Descrip.	hypothetical protein Y50E8A.i - Caenorhabditis elegans		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113919	Strand	-
Start	9602	End	16730
Name	OJ000102_54.0426.C81.o4.np	Method	AAT/NAP

Start	13274	End	16730
GI	7510076	Score	102
Exons	13274..13637, 16704..16730		
GI Descrip.	hypothetical protein Y50E8A.i - Caenorhabditis elegans		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113919	Strand	-
Start	9602	End	16730
Name	OJ000102_54.0426.C81.o5.np	Method	AAT/NAP
Start	13858	End	15133
GI	7523512	Score	101
Exons	13858..13982, 15081..15133		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113919	Strand	-
Start	9602	End	16730
Name	OJ000102_54.0426.C81.o2.tw	Method	TBLASTX:Wheat
Start	15645	End	16037
GI	none	Score	58
Exons	15645..15692, 15699..15797, 15704..15796, 15764..16003, 15780..16037		

Seq. No.	54313	Seq. ID	OJ000102_54.0426.C81
Gene No.	113919	Strand	-
Start	9602	End	16730
Name	OJ000102_54.0426.C81.o2.tm	Method	TBLASTX:Maize
Start	15650	End	15935
GI	none	Score	197
Exons	15650..15934, 15687..15935		

Seq. No.	54314	Seq. ID	OJ000102_54.0426.C82
Gene No.	113920	Strand	+
Start	1	End	99
Name	OJ000102_54.0426.C82.o1.np	Method	AAT/NAP
Start	1	End	99
GI	5042454	Score	72
Exons	1..99		
GI Descrip.	(AC007789) putative polyprotein [Oryza sativa]		

Seq. No.	54315	Seq. ID	OJ000102_54.0426.C83
Gene No.	113921	Strand	+
Start	1	End	1295
Name	OJ000102_54.0426.C83.o1.np	Method	AAT/NAP
Start	1	End	1287
GI	7485185	Score	485
Exons	1..51, 200..551, 652..716, 799..1072, 1106..1287		
GI Descrip.	hypothetical protein - Arabidopsis thaliana gi|2245094|emb|CAB10516.1| (Z97343) hypothetical protein [Arabidopsis thaliana] gi|7268487|emb|CAB78738.1| (AL161546) hypothetical protein [Arabidopsis thaliana]		

Seq. No.	54315	Seq. ID	OJ000102_54.0426.C83
Gene No.	113921	Strand	+
Start	1	End	1295
Name	OJ000102_54.0426.C83.o1.gs	Method	GENSCAN
Start	14	End	1295

GI	none	Score	.65
Exons	14..551, 652..798, 916..1295		

Seq. No.	54315	Seq. ID	OJ000102_54.0426.C83
Gene No.	113922	Strand	+
Start	1970	End	3043
Name	OJ000102_54.0426.C83.o2.gs	Method	GENSCAN
Start	1970	End	3043
GI	none	Score	.6
Exons	1970..2011, 2062..2478, 2498..3043		

Seq. No.	54315	Seq. ID	OJ000102_54.0426.C83
Gene No.	113923	Strand	-
Start	1898	End	3317
Name	OJ000102_54.0426.C83.o1.tm	Method	TBLASTX:Maize
Start	687	End	1174
GI	none	Score	93
Exons	687..800, 759..797, 914..1051, 915..1061, 1121..1174		

Seq. No.	54315	Seq. ID	OJ000102_54.0426.C83
Gene No.	113923	Strand	-
Start	1898	End	3317
Name	OJ000102_54.0426.C83.o2.np	Method	AAT/NAP
Start	1898	End	3317
GI	6907106	Score	431
Exons	1898..2091, 2194..2406, 2449..2778, 3215..3317		
GI Descrip.	(AP001129) EST AU068291(C12960) corresponds to a region of the predicted gene.; hypothetical protein [Oryza sativa]		

Seq. No.	54316	Seq. ID	OJ000102_54.0426.C84
Gene No.	113924	Strand	-
Start	2000	End	2189
Name	OJ000102_54.0426.C84.o2.gs	Method	GENSCAN
Start	2000	End	2189
GI	none	Score	.87
Exons	2000..2011, 2112..2189		

Seq. No.	54317	Seq. ID	OJ000102_54.0426.C85
Gene No.	113925	Strand	+
Start	1856	End	4471
Name	OJ000102_54.0426.C85.o2.gs	Method	GENSCAN
Start	1856	End	4471
GI	none	Score	.87
Exons	1856..2262, 3285..3498, 3919..4012, 4230..4471		

Seq. No.	54317	Seq. ID	OJ000102_54.0426.C85
Gene No.	113925	Strand	+
Start	1856	End	4471
Name	OJ000102_54.0426.C85.o1.np	Method	AAT/NAP
Start	2286	End	4471
GI	7486054	Score	131
Exons	2286..2316, 3331..3498, 3919..4016, 4213..4471		
GI Descrip.	hypothetical protein F24A6.10 - Arabidopsis thaliana gi|4454005|emb|CAA23058.1| (AL035396) putative protein [Arabidopsis thaliana] gi|7269367|emb|CAB79426.1| (AL161562) putative protein [Arabidopsis thaliana]		

Seq. No.	54317	Seq. ID	OJ000102_54.0426.C85
Gene No.	113926	Strand	+
Start	4395	End	4816
Name	OJ000102_54.0426.C85.o1.gp	Method	AAT/GAP
Start	4395	End	4816
GI	none	Score	818
Exons	4395..4816		

Seq. No.	54317	Seq. ID	OJ000102_54.0426.C85
Gene No.	113927	Strand	-
Start	5226	End	6031
Name	OJ000102_54.0426.C85.o2.tm	Method	TBLASTX:Maize
Start	3973	End	4467
GI	none	Score	58
Exons	3973..4014, 4221..4415, 4223..4465, 4229..4465, 4279..4467, 4402..4467		

Seq. No.	54317	Seq. ID	OJ000102_54.0426.C85
Gene No.	113927	Strand	-
Start	5226	End	6031
Name	OJ000102_54.0426.C85.o2.gp	Method	AAT/GAP
Start	5226	End	5703
GI	LIB3433-037-P1-K1-A4	Score	816
Exons	5226..5703		
GI Descrip.	'1652434/dbj|BAA17356| 3.0e-22 (D90905) N-acetylglutamate kinase [Synechocystis sp.]'		

Seq. No.	54317	Seq. ID	OJ000102_54.0426.C85
Gene No.	113927	Strand	-
Start	5226	End	6031
Name	OJ000102_54.0426.C85.o1.tm	Method	TBLASTX:Maize
Start	5379	End	5954
GI	none	Score	201
Exons	5379..5954, 5391..5669, 5449..5925		

Seq. No.	54317	Seq. ID	OJ000102_54.0426.C85
Gene No.	113927	Strand	-
Start	5226	End	6031
Name	OJ000102_54.0426.C85.o3.gs	Method	GENSCAN
Start	5394	End	5975
GI	none	Score	.97
Exons	5394..5975		

Seq. No.	54317	Seq. ID	OJ000102_54.0426.C85
Gene No.	113927	Strand	-
Start	5226	End	6031
Name	OJ000102_54.0426.C85.o2.np	Method	AAT/NAP
Start	5397	End	6031
GI	6706427	Score	791
Exons	5397..6031		
GI Descrip.	(AL133248) acetylglutamate kinase-like protein [Arabidopsis thaliana]		

Seq. No.	54317	Seq. ID	OJ000102_54.0426.C85
Gene No.	113927	Strand	-
Start	5226	End	6031
Name	OJ000102_54.0426.C85.o1.ts	Method	TBLASTX:Soybean

Start	5406	End	6011
GI	none	Score	140
Exons	5406..5672, 5406..6011, 5449..6009		

Seq. No.	54318	Seq. ID	OJ000102_54.0426.C86
Gene No.	113928	Strand	+
Start	385	End	2184
Name	OJ000102_54.0426.C86.o1.gs	Method	GENSCAN
Start	385	End	1092
GI	none	Score	.53
Exons	385..499, 968..1092		

Seq. No.	54318	Seq. ID	OJ000102_54.0426.C86
Gene No.	113928	Strand	+
Start	385	End	2184
Name	OJ000102_54.0426.C86.o1.np	Method	AAT/NAP
Start	748	End	2184
GI	4680492	Score	110
Exons	748..1058, 2118..2184		
GI Descrip.	(AF119222) putative reverse transcriptase [Oryza sativa]		

Seq. No.	54318	Seq. ID	OJ000102_54.0426.C86
Gene No.	113929	Strand	-
Start	1938	End	3135
Name	OJ000102_54.0426.C86.o2.gs	Method	GENSCAN
Start	1938	End	3135
GI	none	Score	.84
Exons	1938..1947, 2143..2263, 2300..2380, 2424..2670, 3025..3135		

Seq. No.	54319	Seq. ID	OJ000102_54.0426.C87
Gene No.	113930	Strand	+
Start	1741	End	4977
Name	OJ000102_54.0426.C87.o1.gs	Method	GENSCAN
Start	1741	End	4977
GI	none	Score	.43
Exons	1741..1766, 2167..2319, 2380..2564, 4023..4077, 4133..4253, 4424..4473, 4833..4977		

Seq. No.	54319	Seq. ID	OJ000102_54.0426.C87
Gene No.	113931	Strand	-
Start	2083	End	2972
Name	OJ000102_54.0426.C87.o1.np	Method	AAT/NAP
Start	2083	End	2972
GI	6069646	Score	448
Exons	2083..2972		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		

Seq. No.	54319	Seq. ID	OJ000102_54.0426.C87
Gene No.	113931	Strand	-
Start	2083	End	2972
Name	OJ000102_54.0426.C87.o1.tm	Method	TBLASTX:Maize
Start	2111	End	2684
GI	none	Score	107

Exons	2111..2296, 2333..2548, 2345..2548, 2358..2549, 2561..2671, 2562..2684		
Seq. No.	54319	Seq. ID	OJ000102_54.0426.C87
Gene No.	113931	Strand	-
Start	2083	End	2972
Name	OJ000102_54.0426.C87.o1.tw	Method	TBLASTX:Wheat
Start	2357	End	2549
GI	none	Score	99
Exons	2357..2545, 2358..2549, 2394..2549		
Seq. No.	54320	Seq. ID	OJ000102_54.0426.C88
Gene No.	113932	Strand	+
Start	2329	End	6273
Name	OJ000102_54.0426.C88.o2.gs	Method	GENSCAN
Start	2329	End	6273
GI	none	Score	.61
Exons	2329..2488, 3220..3363, 3922..4055, 4319..4412, 6092..6273		
Seq. No.	54320	Seq. ID	OJ000102_54.0426.C88
Gene No.	113933	Strand	+
Start	8054	End	9844
Name	OJ000102_54.0426.C88.o3.gs	Method	GENSCAN
Start	8054	End	9844
GI	none	Score	.74
Exons	8054..8065, 8184..8279, 8594..8767, 8958..9008, 9126..9269, 9503..9844		
Seq. No.	54320	Seq. ID	OJ000102_54.0426.C88
Gene No.	113934	Strand	-
Start	128	End	915
Name	OJ000102_54.0426.C88.o1.gs	Method	GENSCAN
Start	128	End	915
GI	none	Score	.66
Exons	128..192, 579..873, 901..915		
Seq. No.	54321	Seq. ID	OJ000102_54.0426.C89
Gene No.	113935	Strand	-
Start	2536	End	3294
Name	OJ000102_54.0426.C89.o2.gs	Method	GENSCAN
Start	2536	End	3294
GI	none	Score	.91
Exons	2536..2748, 2827..3294		
Seq. No.	54321	Seq. ID	OJ000102_54.0426.C89
Gene No.	113935	Strand	-
Start	2536	End	3294
Name	OJ000102_54.0426.C89.o1.np	Method	AAT/NAP
Start	2679	End	3264
GI	5302798	Score	396
Exons	2679..2831, 2881..3264		
GI Descrip.	(Z97341) apetala2 domain TINY like protein [Arabidopsis thaliana] gi|7268425|emb|CAB78717.1| (AL161544) apetala2 domain TINY like protein [Arabidopsis thaliana]		
Seq. No.	54321	Seq. ID	OJ000102_54.0426.C89
Gene No.	113935	Strand	-

Start	2536	End	3294
Name	OJ000102_54.0426.C89.o1.tc	Method	TBLASTX:Cress
Start	2953	End	3186
GI	none	Score	151
Exons	2953..3186, 2954..3163		

Seq. No.	54321	Seq. ID	OJ000102_54.0426.C89
Gene No.	113935	Strand	-
Start	2536	End	3294
Name	OJ000102_54.0426.C89.o1.ts	Method	TBLASTX:Soybean
Start	2953	End	3156
GI	none	Score	152
Exons	2953..3156, 2954..3142		

Seq. No.	54321	Seq. ID	OJ000102_54.0426.C89
Gene No.	113935	Strand	-
Start	2536	End	3294
Name	OJ000102_54.0426.C89.o1.tw	Method	TBLASTX:Wheat
Start	2957	End	3147
GI	none	Score	66
Exons	2957..3145, 2977..3147		

Seq. No.	54321	Seq. ID	OJ000102_54.0426.C89
Gene No.	113935	Strand	-
Start	2536	End	3294
Name	OJ000102_54.0426.C89.o1.tm	Method	TBLASTX:Maize
Start	2992	End	3186
GI	none	Score	98
Exons	2992..3069, 2995..3186, 2996..3169		

Seq. No.	54322	Seq. ID	OJ000102_54.0426.C90
Gene No.	113936	Strand	+
Start	1	End	1162
Name	OJ000102_54.0426.C90.o1.np	Method	AAT/NAP
Start	1	End	1162
GI	7228457	Score	1558
Exons	1..64, 128..962, 1085..1162		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	54322	Seq. ID	OJ000102_54.0426.C90
Gene No.	113936	Strand	+
Start	1	End	1162
Name	OJ000102_54.0426.C90.o1.tw	Method	TBLASTX:Wheat
Start	135	End	598
GI	none	Score	204
Exons	135..578, 136..591, 137..598, 137..592		

Seq. No.	54322	Seq. ID	OJ000102_54.0426.C90
Gene No.	113936	Strand	+
Start	1	End	1162
Name	OJ000102_54.0426.C90.o2.ts	Method	TBLASTX:Soybean
Start	176	End	541
GI	none	Score	110
Exons	176..400, 407..541		

Seq. No.	54322	Seq. ID	OJ000102_54.0426.C90
Gene No.	113936	Strand	+
Start	1	End	1162
Name	OJ000102_54.0426.C90.o1.gs	Method	GENSCAN
Start	191	End	1070
GI	none	Score	.48
Exons	191..1070		

Seq. No.	54322	Seq. ID	OJ000102_54.0426.C90
Gene No.	113936	Strand	+
Start	1	End	1162
Name	OJ000102_54.0426.C90.o1.tm	Method	TBLASTX:Maize
Start	301	End	622
GI	none	Score	377
Exons	301..612, 302..622, 506..622		

Seq. No.	54322	Seq. ID	OJ000102_54.0426.C90
Gene No.	113936	Strand	+
Start	1	End	1162
Name	OJ000102_54.0426.C90.o2.tm	Method	TBLASTX:Maize
Start	649	End	1033
GI	none	Score	355
Exons	649..1014, 650..1033		

Seq. No.	54322	Seq. ID	OJ000102_54.0426.C90
Gene No.	113936	Strand	+
Start	1	End	1162
Name	OJ000102_54.0426.C90.o2.tw	Method	TBLASTX:Wheat
Start	706	End	1126
GI	none	Score	484
Exons	706..1119, 707..1126		

Seq. No.	54322	Seq. ID	OJ000102_54.0426.C90
Gene No.	113936	Strand	+
Start	1	End	1162
Name	OJ000102_54.0426.C90.o1.ts	Method	TBLASTX:Soybean
Start	785	End	1156
GI	none	Score	270
Exons	785..1156, 802..945		

Seq. No.	54323	Seq. ID	OJ000102_54.0426.C91
Gene No.	113937	Strand	+
Start	1	End	1930
Name	OJ000102_54.0426.C91.o1.np	Method	AAT/NAP
Start	1	End	1927
GI	7228457	Score	3050
Exons	1..310, 377..1927		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	54323	Seq. ID	OJ000102_54.0426.C91
Gene No.	113937	Strand	+
Start	1	End	1930
Name	OJ000102_54.0426.C91.o1.gs	Method	GENSCAN
Start	158	End	1930
GI	none	Score	.99

Exons	158..1930		
Seq. No.	54323	Seq. ID	OJ000102_54.0426.C91
Gene No.	113938	Strand	-
Start	2557	End	5524
Name	OJ000102_54.0426.C91.o3.tw	Method	TBLASTX:Wheat
Start	137	End	523
GI	none	Score	150
Exons	137..289, 140..376, 141..365, 148..480, 277..366, 350..523		
Seq. No.	54323	Seq. ID	OJ000102_54.0426.C91
Gene No.	113938	Strand	-
Start	2557	End	5524
Name	OJ000102_54.0426.C91.o1.tm	Method	TBLASTX:Maize
Start	797	End	1120
GI	none	Score	360
Exons	797..1120, 826..1107		
Seq. No.	54323	Seq. ID	OJ000102_54.0426.C91
Gene No.	113938	Strand	-
Start	2557	End	5524
Name	OJ000102_54.0426.C91.o1.tw	Method	TBLASTX:Wheat
Start	934	End	1315
GI	none	Score	376
Exons	934..990, 935..1315, 935..1276, 1036..1284		
Seq. No.	54323	Seq. ID	OJ000102_54.0426.C91
Gene No.	113938	Strand	-
Start	2557	End	5524
Name	OJ000102_54.0426.C91.o2.tw	Method	TBLASTX:Wheat
Start	1316	End	1918
GI	none	Score	265
Exons	1316..1600, 1320..1391, 1321..1419, 1456..1599, 1792..1914, 1793..1918		
Seq. No.	54323	Seq. ID	OJ000102_54.0426.C91
Gene No.	113938	Strand	-
Start	2557	End	5524
Name	OJ000102_54.0426.C91.o2.gs	Method	GENSCAN
Start	2557	End	5517
GI	none	Score	.99
Exons	2557..4038, 4226..4442, 4538..5517		
Seq. No.	54323	Seq. ID	OJ000102_54.0426.C91
Gene No.	113938	Strand	-
Start	2557	End	5524
Name	OJ000102_54.0426.C91.o2.np	Method	AAT/NAP
Start	2560	End	5524
GI	5803259	Score	4430
Exons	2560..4442, 4538..5524		
GI Descrip.	(AP000399) hypothetical protein [Oryza sativa]		
Seq. No.	54324	Seq. ID	OJ000102_54.0426.C92
Gene No.	113939	Strand	-
Start	253	End	883
Name	OJ000102_54.0426.C92.o1.gs	Method	GENSCAN
Start	253	End	883

GI	none	Score	.5
Exons	253..415, 736..810, 829..883		

Seq. No.	54324	Seq. ID	OJ000102_54.0426.C92
Gene No.	113939	Strand	-
Start	253	End	883
Name	OJ000102_54.0426.C92.o1.np	Method	AAT/NAP
Start	557	End	817
GI	7523512	Score	96
Exons	557..817		
GI Descrip.	(AP001633) hypothetical protein [Oryza sativa]		

Seq. No.	54325	Seq. ID	OJ000102_54.0426.C94
Gene No.	113940	Strand	+
Start	14749	End	16573
Name	OJ000102_54.0426.C94.o1.np	Method	AAT/NAP
Start	14749	End	16573
GI	6907086	Score	1536
Exons	14749..15517, 15577..15746, 15984..16095, 16220..16573		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	54325	Seq. ID	OJ000102_54.0426.C94
Gene No.	113941	Strand	+
Start	17410	End	18015
Name	OJ000102_54.0426.C94.o2.np	Method	AAT/NAP
Start	17383	End	18015
GI	2190552	Score	232
Exons	17383..17575, 17685..17797, 17938..18015		
GI Descrip.	(AC001229) Similar to Holcus major pollen allergen (gb|Z27084). [Arabidopsis thaliana]		

Seq. No.	54325	Seq. ID	OJ000102_54.0426.C94
Gene No.	113941	Strand	+
Start	17410	End	18015
Name	OJ000102_54.0426.C94.o3.gs	Method	GENSCAN
Start	17410	End	17797
GI	none	Score	.99
Exons	17410..17575, 17685..17797		

Seq. No.	54325	Seq. ID	OJ000102_54.0426.C94
Gene No.	113942	Strand	-
Start	1659	End	10644
Name	OJ000102_54.0426.C94.o1.gs	Method	GENSCAN
Start	1659	End	10644
GI	none	Score	.59
Exons	1659..2482, 2693..2828, 4274..4414, 4521..4602, 4917..5127, 5199..5373, 6198..6629, 6752..6849, 7224..7278, 7357..7618, 9470..10644		

Seq. No.	54325	Seq. ID	OJ000102_54.0426.C94
Gene No.	113942	Strand	-
Start	1659	End	10644
Name	OJ000102_54.0426.C94.o1.gp	Method	AAT/GAP
Start	4021	End	4430
GI	none	Score	788
Exons	4021..4430		

Seq. No.	54325	Seq. ID	OJ000102_54.0426.C94
Gene No.	113943	Strand	-
Start	12794	End	13304
Name	OJ000102_54.0426.C94.o3.tm	Method	TBLASTX:Maize
Start	7405	End	9537
GI	none	Score	229
Exons	7405..7620, 7406..7621, 7409..7621, 9474..9536, 9478..9537		

Seq. No.	54325	Seq. ID	OJ000102_54.0426.C94
Gene No.	113943	Strand	-
Start	12794	End	13304
Name	OJ000102_54.0426.C94.o2.tm	Method	TBLASTX:Maize
Start	9538	End	9834
GI	none	Score	129
Exons	9538..9732, 9610..9711, 9695..9802, 9703..9834, 9708..9833, 9718..9834		

Seq. No.	54325	Seq. ID	OJ000102_54.0426.C94
Gene No.	113943	Strand	-
Start	12794	End	13304
Name	OJ000102_54.0426.C94.o1.ts	Method	TBLASTX:Soybean
Start	9667	End	10090
GI	none	Score	112
Exons	9667..9744, 9723..9851, 9724..9891, 9725..9901, 9820..9885, 9913..10053, 9971..10090		

Seq. No.	54325	Seq. ID	OJ000102_54.0426.C94
Gene No.	113943	Strand	-
Start	12794	End	13304
Name	OJ000102_54.0426.C94.o1.tm	Method	TBLASTX:Maize
Start	10078	End	10476
GI	none	Score	133
Exons	10078..10212, 10091..10228, 10184..10228, 10255..10476, 10267..10443		

Seq. No.	54325	Seq. ID	OJ000102_54.0426.C94
Gene No.	113943	Strand	-
Start	12794	End	13304
Name	OJ000102_54.0426.C94.o2.gp	Method	AAT/GAP
Start	12794	End	13304
GI	38782_1.R1084	Score	840
Exons	12794..13304		
GI Descrip.	'6069643/dbj|AP000616.1|AP000616 0.0e+00 Oryza sativa genomic DNA, chromosome 6, clone:P0514G12'		

Seq. No.	54325	Seq. ID	OJ000102_54.0426.C94
Gene No.	113944	Strand	
Start	17511	End	18015
Name	OJ000102_54.0426.C94.o4.tm	Method	TBLASTX:Maize
Start	17511	End	18015
GI	none	Score	74
Exons	17511..17576, 17518..17556, 17680..17799, 17684..17803, 17684..17800, 17701..17805, 17935..18015, 17937..18014		

Seq. No.	54325	Seq. ID	OJ000102_54.0426.C94
Gene No.	113944	Strand	
Start	17511	End	18015

Name	OJ000102_54.0426.C94.o2.ts	Method	TBLASTX:Soybean
Start	17514	End	18009
GI	none	Score	62
Exons	17514..17576, 17515..17559, 17680..17799, 17684..17818, 17935..18009, 17937..18008		

Seq. No.	54326	Seq. ID	OJ000102_54.0426.C95
Gene No.	113945	Strand	+
Start	1	End	338
Name	OJ000102_54.0426.C95.o1.np	Method	AAT/NAP
Start	1	End	329
GI	1076486	Score	310
Exons	1..329		
GI Descrip.	cim1 protein - soybean gi|555616 (U03860) cytokinin induced message [Glycine max]		

Seq. No.	54326	Seq. ID	OJ000102_54.0426.C95
Gene No.	113945	Strand	+
Start	1	End	338
Name	OJ000102_54.0426.C95.o1.gs	Method	GENSCAN
Start	3	End	338
GI	none	Score	.99
Exons	3..338		

Seq. No.	54326	Seq. ID	OJ000102_54.0426.C95
Gene No.	113945	Strand	+
Start	1	End	338
Name	OJ000102_54.0426.C95.o1.tm	Method	TBLASTX:Maize
Start	3	End	328
GI	none	Score	63
Exons	3..56, 4..129, 4..132, 120..197, 134..196, 207..323, 209..328		

Seq. No.	54326	Seq. ID	OJ000102_54.0426.C95
Gene No.	113945	Strand	+
Start	1	End	338
Name	OJ000102_54.0426.C95.o1.ts	Method	TBLASTX:Soybean
Start	4	End	323
GI	none	Score	123
Exons	4..144, 140..322, 141..197, 234..323		

Seq. No.	54326	Seq. ID	OJ000102_54.0426.C95
Gene No.	113945	Strand	+
Start	1	End	338
Name	OJ000102_54.0426.C95.o1.tw	Method	TBLASTX:Wheat
Start	10	End	337
GI	none	Score	93
Exons	10..123, 16..135, 120..194, 207..335, 215..337		

Seq. No.	54327	Seq. ID	OJ000102_54.0426.C96
Gene No.	113946	Strand	+
Start	3952	End	4894
Name	OJ000102_54.0426.C96.o2.gs	Method	GENSCAN
Start	3952	End	4894
GI	none	Score	.59
Exons	3952..4000, 4220..4387, 4411..4496, 4718..4894		

Seq. No.	54327	Seq. ID	OJ000102_54.0426.C96

Gene No.	113947	Strand	+
Start	6980	End	11934
Name	OJ000102_54.0426.C96.o1.np	Method	AAT/NAP
Start	6823	End	8647
GI	4895241	Score	558
Exons	6823..6902, 7580..7650, 7755..7867, 8029..8222, 8326..8647		
GI Descrip.	(AC007659) putative beta-expansin [Arabidopsis thaliana]		

Seq. No.	54327	Seq. ID	OJ000102_54.0426.C96
Gene No.	113947	Strand	+
Start	6980	End	11934
Name	OJ000102_54.0426.C96.o3.gs	Method	GENSCAN
Start	6980	End	11934
GI	none	Score	.47
Exons	6980..7031, 7495..7650, 7775..7848, 8029..8222, 8326..8625, 10849..10907, 11035..11178, 11195..11459, 11473..11556, 11817..11934		

Seq. No.	54327	Seq. ID	OJ000102_54.0426.C96
Gene No.	113948	Strand	-
Start	8575	End	9084
Name	OJ000102_54.0426.C96.o1.tm	Method	TBLASTX:Maize
Start	7396	End	8861
GI	none	Score	40
Exons	7396..7413, 7438..7518, 7507..7539, 7632..7652, 7754..7867, 7769..7882, 7771..7869, 8020..8223, 8026..8091, 8028..8222, 8144..8239, 8148..8243, 8303..8467, 8323..8466, 8467..8511, 8468..8515, 8515..8628, 8515..8646, 8516..8647, 8531..8650, 8753..8788, 8754..8789, 8754..8789, 8755..8790, 8829..8861		

Seq. No.	54327	Seq. ID	OJ000102_54.0426.C96
Gene No.	113948	Strand	-
Start	8575	End	9084
Name	OJ000102_54.0426.C96.o1.ts	Method	TBLASTX:Soybean
Start	7769	End	8650
GI	none	Score	135
Exons	7769..7870, 7774..7869, 8020..8100, 8028..8114, 8125..8223, 8321..8458, 8468..8521, 8558..8650		

Seq. No.	54327	Seq. ID	OJ000102_54.0426.C96
Gene No.	113948	Strand	-
Start	8575	End	9084
Name	OJ000102_54.0426.C96.o1.tw	Method	TBLASTX:Wheat
Start	8031	End	8419
GI	none	Score	228
Exons	8031..8099, 8032..8223, 8127..8222, 8150..8233, 8321..8419, 8323..8394		

Seq. No.	54327	Seq. ID	OJ000102_54.0426.C96
Gene No.	113948	Strand	-
Start	8575	End	9084
Name	OJ000102_54.0426.C96.o2.gp	Method	AAT/GAP
Start	8575	End	9084
GI	36084_1.R1084	Score	960
Exons	8575..9084		
GI Descrip.	'5670155/gb|AF161269.1|AF161269 2.0e-35 Oryza sativa subsp. japonica BAC clone 34K24, complete sequence'		

Seq. No.	54328	Seq. ID	OJ000102_54.0426.C97
Gene No.	113949	Strand	+
Start	392	End	1051
Name	OJ000102_54.0426.C97.o1.gs	Method	GENSCAN
Start	392	End	1051
GI	none	Score	.93
Exons	392..464, 815..1051		

Seq. No.	54328	Seq. ID	OJ000102_54.0426.C97
Gene No.	113950	Strand	-
Start	1777	End	1813
Name	OJ000102_54.0426.C97.o2.gs	Method	GENSCAN
Start	1777	End	1813
GI	none	Score	.76
Exons	1777..1813		

Seq. No.	54329	Seq. ID	OJ000102_54.0426.C98
Gene No.	113951	Strand	-
Start	1	End	918
Name	OJ000102_54.0426.C98.o1.np	Method	AAT/NAP
Start	1	End	918
GI	6466937	Score	483
Exons	1..918		
GI Descrip.	(AC011621) putative retroelement pol polyprotein [Arabidopsis thaliana]		

Seq. No.	54329	Seq. ID	OJ000102_54.0426.C98
Gene No.	113951	Strand	-
Start	1	End	918
Name	OJ000102_54.0426.C98.o1.tm	Method	TBLASTX:Maize
Start	1	End	462
GI	none	Score	137
Exons	1..288, 1..462, 2..445		

Seq. No.	54329	Seq. ID	OJ000102_54.0426.C98
Gene No.	113951	Strand	-
Start	1	End	918
Name	OJ000102_54.0426.C98.o1.tw	Method	TBLASTX:Wheat
Start	5	End	342
GI	none	Score	127
Exons	5..331, 10..342		

Seq. No.	54329	Seq. ID	OJ000102_54.0426.C98
Gene No.	113951	Strand	-
Start	1	End	918
Name	OJ000102_54.0426.C98.o1.ts	Method	TBLASTX:Soybean
Start	10	End	327
GI	none	Score	210
Exons	10..327		

Seq. No.	54329	Seq. ID	OJ000102_54.0426.C98
Gene No.	113951	Strand	-
Start	1	End	918
Name	OJ000102_54.0426.C98.o2.tm	Method	TBLASTX:Maize
Start	591	End	881
GI	none	Score	100

Exons	591..728, 592..774, 598..828, 810..881		
Seq. No.	54330	Seq. ID	OJ000102_54.0426.C99
Gene No.	113952	Strand	+
Start	3992	End	6202
Name	OJ000102_54.0426.C99.o2.gs	Method	GENSCAN
Start	3992	End	6202
GI	none	Score	.58
Exons	3992..3994, 4981..5054, 5166..5284, 5798..5854, 5901..6202		
Seq. No.	54330	Seq. ID	OJ000102_54.0426.C99
Gene No.	113953	Strand	-
Start	5656	End	6231
Name	OJ000102_54.0426.C99.o1.np	Method	AAT/NAP
Start	5656	End	6231
GI	6069646	Score	625
Exons	5656..6231		
GI Descrip.	(AP000616) similar to putative reverse transcriptase (AC005315) [Oryza sativa] gi|6907112|dbj|BAA90639.1| (AP001129) Similar to Arabidopsis thaliana chromosome II BAC F9O13 genomic sequence, putative non-LTR retroelement reverse transcriptase. (AC006248) [Oryza sativa]		
Seq. No.	54330	Seq. ID	OJ000102_54.0426.C99
Gene No.	113954	Strand	-
Start	8189	End	10131
Name	OJ000102_54.0426.C99.o1.tm	Method	TBLASTX:Maize
Start	5765	End	6225
GI	none	Score	37
Exons	5765..5887, 5765..5878, 5894..6133, 5895..6113, 5933..6151, 6169..6225		
Seq. No.	54330	Seq. ID	OJ000102_54.0426.C99
Gene No.	113954	Strand	-
Start	8189	End	10131
Name	OJ000102_54.0426.C99.o3.gs	Method	GENSCAN
Start	8189	End	9800
GI	none	Score	.42
Exons	8189..8284, 8327..8621, 9216..9289, 9510..9800		
Seq. No.	54330	Seq. ID	OJ000102_54.0426.C99
Gene No.	113954	Strand	-
Start	8189	End	10131
Name	OJ000102_54.0426.C99.o2.np	Method	AAT/NAP
Start	8283	End	9281
GI	7228450	Score	183
Exons	8283..8401, 8505..8621, 8763..8827, 9146..9281		
GI Descrip.	(AP001366) hypothetical protein [Oryza sativa]		
Seq. No.	54330	Seq. ID	OJ000102_54.0426.C99
Gene No.	113954	Strand	-
Start	8189	End	10131
Name	OJ000102_54.0426.C99.o3.np	Method	AAT/NAP
Start	8751	End	10131
GI	7340868	Score	120
Exons	8751..8771, 9975..10131		
GI Descrip.	(AP001551) hypothetical protein [Oryza sativa]		

Seq. No.	54331	Seq. ID	OJ000102_54.0426.C100
Gene No.	113955	Strand	+
Start	4094	End	4532
Name	OJ000102_54.0426.C100.o1.gp	Method	AAT/GAP
Start	4094	End	4532
GI	uC-osroM202024c01b1	Score	648
Exons	4094..4532		
GI Descrip.	'3169171/gb|AAC17814.1| 9.0e-31 (AC004401) putative serine carboxypeptidase I [Arabidopsis thaliana] >gi_3445213_gb_AAC32443.1_ (AC004786) putative serine carboxypeptidase I [Arabidopsis thaliana]'		

Seq. No.	54331	Seq. ID	OJ000102_54.0426.C100
Gene No.	113956	Strand	-
Start	1071	End	2929
Name	OJ000102_54.0426.C100.o1.gs	Method	GENSCAN
Start	1071	End	2929
GI	none	Score	.9
Exons	1071..2122, 2179..2929		

Seq. No.	54331	Seq. ID	OJ000102_54.0426.C100
Gene No.	113956	Strand	-
Start	1071	End	2929
Name	OJ000102_54.0426.C100.o1.np	Method	AAT/NAP
Start	1083	End	2869
GI	1786142	Score	564
Exons	1083..1318, 1368..1700, 1909..2193, 2221..2665, 2702..2869		
GI Descrip.	(AB000455) PEThy;ZPT4-1 [Petunia x hybrida]		

Seq. No.	54331	Seq. ID	OJ000102_54.0426.C100
Gene No.	113956	Strand	-
Start	1071	End	2929
Name	OJ000102_54.0426.C100.o1.ts	Method	TBLASTX:Soybean
Start	1536	End	2821
GI	none	Score	132
Exons	1536..1676, 1537..1677, 1938..1985, 1977..2042, 2747..2821		

Seq. No.	54331	Seq. ID	OJ000102_54.0426.C100
Gene No.	113957	Strand	
Start	5685	End	5832
Name	OJ000102_54.0426.C100.o1.tm	Method	TBLASTX:Maize
Start	5685	End	5832
GI	none	Score	116
Exons	5685..5831, 5685..5831, 5686..5832		

Seq. No.	54332	Seq. ID	OJ000102_54.0426.C101
Gene No.	113958	Strand	+
Start	251	End	664
Name	OJ000102_54.0426.C101.o1.tm	Method	TBLASTX:Maize
Start	236	End	664
GI	none	Score	110
Exons	236..313, 238..315, 238..309, 239..313, 396..440, 398..436, 548..664, 553..663		

Seq. No.	54332	Seq. ID	OJ000102_54.0426.C101
Gene No.	113958	Strand	+

Start	251	End	664
Name	OJ000102_54.0426.C101.o1.gs	Method	GENSCAN
Start	251	End	663
GI	none	Score	.79
Exons	251..313, 401..437, 549..663		

Seq. No.	54333	Seq. ID	OJ000102_54.0426.C102
Gene No.	113959	Strand	+
Start	276	End	489
Name	OJ000102_54.0426.C102.o1.gs	Method	GENSCAN
Start	276	End	489
GI	none	Score	.84
Exons	276..489		

Seq. No.	54333	Seq. ID	OJ000102_54.0426.C102
Gene No.	113960	Strand	-
Start	1259	End	1390
Name	OJ000102_54.0426.C102.o1.tm	Method	TBLASTX:Maize
Start	272	End	408
GI	none	Score	200
Exons	272..379, 273..398, 274..408		

Seq. No.	54333	Seq. ID	OJ000102_54.0426.C102
Gene No.	113960	Strand	-
Start	1259	End	1390
Name	OJ000102_54.0426.C102.o2.gs	Method	GENSCAN
Start	1259	End	1390
GI	none	Score	.61
Exons	1259..1390		

Seq. No.	54334	Seq. ID	OJ000102_54.0426.C103
Gene No.	113961	Strand	+
Start	107	End	287
Name	OJ000102_54.0426.C103.o1.gs	Method	GENSCAN
Start	107	End	287
GI	none	Score	.91
Exons	107..287		

Seq. No.	54335	Seq. ID	OJ000102_54.0426.C104
Gene No.	113962	Strand	+
Start	752	End	937
Name	OJ000102_54.0426.C104.o1.gp	Method	AAT/GAP
Start	752	End	937
GI	5455384	Score	304
Exons	752..937		
GI Descrip.	3169171/gb|AAC17814.1| 9.0e-31 (AC004401) putative serine carboxypeptidase I [Arabidopsis thaliana] >gi_3445213_gb_AAC32443.1_ (AC004786) putative serine carboxypeptidase I [Arabidopsis thaliana]		

Seq. No.	54335	Seq. ID	OJ000102_54.0426.C104
Gene No.	113963	Strand	-
Start	1	End	1283
Name	OJ000102_54.0426.C104.o1.np	Method	AAT/NAP
Start	1	End	1283
GI	6721547	Score	59
Exons	1..23, 1191..1283		

GI Descrip. (AP001073) Similar to Oryza sativa gene for Pib. (AB013448)

Seq. No.	54336	Seq. ID	OJ000102_54.0426.C106
Gene No.	113964	Strand	+
Start	1	End	722
Name	OJ000102_54.0426.C106.o1.np	Method	AAT/NAP
Start	1	End	722
GI	7228457	Score	1120
Exons	1..722		
GI Descrip.	(AP001366) Similar to Sorghum bicolor Gypsy-Ty3 type retrotransposon RetroSor1, polyprotein. (AF098806) [Oryza sativa]		

Seq. No.	54336	Seq. ID	OJ000102_54.0426.C106
Gene No.	113964	Strand	+
Start	1	End	722
Name	OJ000102_54.0426.C106.o1.gs	Method	GENSCAN
Start	145	End	689
GI	none	Score	.54
Exons	145..689		

Seq. No.	54337	Seq. ID	OJ000102_54.0426.C107
Gene No.	113965	Strand	+
Start	92	End	484
Name	OJ000102_54.0426.C107.o1.gs	Method	GENSCAN
Start	92	End	484
GI	none	Score	.57
Exons	92..224, 311..484		

Seq. No.	54338	Seq. ID	OJ000102_56.0426.C2
Gene No.	113966	Strand	+
Start	1	End	741
Name	OJ000102_56.0426.C2.o1.np	Method	AAT/NAP
Start	1	End	741
GI	7339719	Score	123
Exons	1..129, 343..516, 625..741		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	54338	Seq. ID	OJ000102_56.0426.C2
Gene No.	113966	Strand	+
Start	1	End	741
Name	OJ000102_56.0426.C2.o1.gs	Method	GENSCAN
Start	303	End	475
GI	none	Score	.45
Exons	303..475		

Seq. No.	54339	Seq. ID	OJ000102_56.0426.C7
Gene No.	113967	Strand	+
Start	1	End	231
Name	OJ000102_56.0426.C7.o1.np	Method	AAT/NAP
Start	1	End	231
GI	1621461	Score	196
Exons	1..27, 101..231		
GI Descrip.	(U73103) laccase [Liriodendron tulipifera]		

Seq. No.	54339	Seq. ID	OJ000102_56.0426.C7
Gene No.	113968	Strand	+

Start	1534	End	1611
Name	OJ000102_56.0426.C7.o2.np	Method	AAT/NAP
Start	1534	End	1611
GI	6630699	Score	79
Exons	1534..1611		
GI Descrip.	(AP000969) hypothetical protein [Oryza sativa] gi|6721536|dbj|BAA89566.1| (AP001073) hypothetical protein [Oryza sativa]		

Seq. No.	54339	Seq. ID	OJ000102_56.0426.C7
Gene No.	113969	Strand	+
Start	2776	End	4204
Name	OJ000102_56.0426.C7.o4.np	Method	AAT/NAP
Start	2776	End	4204
GI	6907088	Score	687
Exons	2776..2913, 3089..3325, 3821..4204		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	54339	Seq. ID	OJ000102_56.0426.C7
Gene No.	113970	Strand	-
Start	2253	End	4096
Name	OJ000102_56.0426.C7.o1.tc	Method	TBLASTX:Cress
Start	102	End	246
GI	none	Score	188
Exons	102..239, 103..246		

Seq. No.	54339	Seq. ID	OJ000102_56.0426.C7
Gene No.	113970	Strand	-
Start	2253	End	4096
Name	OJ000102_56.0426.C7.o1.tm	Method	TBLASTX:Maize
Start	102	End	234
GI	none	Score	95
Exons	102..233, 102..230, 103..234		

Seq. No.	54339	Seq. ID	OJ000102_56.0426.C7
Gene No.	113970	Strand	-
Start	2253	End	4096
Name	OJ000102_56.0426.C7.o1.ts	Method	TBLASTX:Soybean
Start	102	End	234
GI	none	Score	229
Exons	102..233, 103..234		

Seq. No.	54339	Seq. ID	OJ000102_56.0426.C7
Gene No.	113970	Strand	-
Start	2253	End	4096
Name	OJ000102_56.0426.C7.o3.np	Method	AAT/NAP
Start	1754	End	3476
GI	5922619	Score	81
Exons	1754..1858, 3448..3476		
GI Descrip.	(AP000492) hypothetical protein [Oryza sativa] gi|6016852|dbj|BAA85195.1| (AP000570) hypothetical protein [Oryza sativa]		

Seq. No.	54339	Seq. ID	OJ000102_56.0426.C7
Gene No.	113970	Strand	-
Start	2253	End	4096
Name	OJ000102_56.0426.C7.o1.gs	Method	GENSCAN

Start	2253	End	4096
GI	none	Score	1
Exons	2253..2326, 3991..4096		

Seq. No.	54340	Seq. ID	OJ000102_56.0426.C8
Gene No.	113971	Strand	+
Start	158	End	358
Name	OJ000102_56.0426.C8.o1.gs	Method	GENSCAN
Start	158	End	358
GI	none	Score	.45
Exons	158..358		

Seq. No.	54341	Seq. ID	OJ000102_56.0426.C9
Gene No.	113972	Strand	-
Start	1	End	1033
Name	OJ000102_56.0426.C9.o1.np	Method	AAT/NAP
Start	1	End	1033
GI	7432996	Score	932
Exons	1..241, 328..456, 578..822, 947..1033		
GI Descrip.	probable laccase (EC 1.10.3.2) - rice (fragment) gi|2920654|gb|AAC04576.1| (AF047697) putative high-pI laccase [Oryza sativa]		

Seq. No.	54341	Seq. ID	OJ000102_56.0426.C9
Gene No.	113972	Strand	-
Start	1	End	1033
Name	OJ000102_56.0426.C9.o1.ts	Method	TBLASTX:Soybean
Start	3	End	620
GI	none	Score	84
Exons	3..56, 57..242, 57..248, 329..463, 336..458, 576..620		

Seq. No.	54341	Seq. ID	OJ000102_56.0426.C9
Gene No.	113972	Strand	-
Start	1	End	1033
Name	OJ000102_56.0426.C9.o1.gs	Method	GENSCAN
Start	26	End	960
GI	none	Score	.97
Exons	26..241, 328..456, 578..822, 947..960		

Seq. No.	54341	Seq. ID	OJ000102_56.0426.C9
Gene No.	113972	Strand	-
Start	1	End	1033
Name	OJ000102_56.0426.C9.o2.tw	Method	TBLASTX:Wheat
Start	45	End	242
GI	none	Score	195
Exons	45..242, 45..242, 75..170		

Seq. No.	54341	Seq. ID	OJ000102_56.0426.C9
Gene No.	113972	Strand	-
Start	1	End	1033
Name	OJ000102_56.0426.C9.o2.tm	Method	TBLASTX:Maize
Start	60	End	463
GI	none	Score	108
Exons	60..218, 60..239, 326..463, 327..461		

Seq. No.	54341	Seq. ID	OJ000102_56.0426.C9
Gene No.	113972	Strand	-

Start	1	End	1033
Name	OJ000102_56.0426.C9.o1.tc	Method	TBLASTX:Cress
Start	413	End	1023
GI	none	Score	53
Exons	413..463, 414..458, 568..822,	576..821,	943..1023

Seq. No.	54341	Seq. ID	OJ000102_56.0426.C9
Gene No.	113972	Strand	-
Start	1	End	1033
Name	OJ000102_56.0426.C9.o1.tw	Method	TBLASTX:Wheat
Start	550	End	821
GI	none	Score	287
Exons	550..819, 576..821		

Seq. No.	54341	Seq. ID	OJ000102_56.0426.C9
Gene No.	113972	Strand	-
Start	1	End	1033
Name	OJ000102_56.0426.C9.o1.tm	Method	TBLASTX:Maize
Start	568	End	1005
GI	none	Score	308
Exons	568..822, 582..821, 943..1005		

Seq. No.	54341	Seq. ID	OJ000102_56.0426.C9
Gene No.	113972	Strand	-
Start	1	End	1033
Name	OJ000102_56.0426.C9.o2.ts	Method	TBLASTX:Soybean
Start	624	End	1020
GI	none	Score	214
Exons	624..821, 628..822, 943..1020		

Seq. No.	54341	Seq. ID	OJ000102_56.0426.C9
Gene No.	113972	Strand	-
Start	1	End	1033
Name	OJ000102_56.0426.C9.o1.gp	Method	AAT/GAP
Start	665	End	1033
GI	2428160	Score	389
Exons	665..822, 947..1033		
GI Descrip.	2129953/pir||JC5229 3.0e-39 laccase (EC 1.10.3.2) - common tobacco >gi_1685087 (U43542) diphenol oxidase [Nicotiana tabacum]		

Seq. No.	54341	Seq. ID	OJ000102_56.0426.C9
Gene No.	113972	Strand	-
Start	1	End	1033
Name	OJ000102_56.0426.C9.o2.gp	Method	AAT/GAP
Start	740	End	1033
GI	2428160	Score	288
Exons	740..822, 947..1033		
GI Descrip.	2129953/pir||JC5229 3.0e-39 laccase (EC 1.10.3.2) - common tobacco >gi_1685087 (U43542) diphenol oxidase [Nicotiana tabacum]		

Seq. No.	54342	Seq. ID	OJ000102_56.0426.C10
Gene No.	113973	Strand	+
Start	153	End	1196
Name	OJ000102_56.0426.C10.o1.gs	Method	GENSCAN
Start	153	End	1196

GI	none	Score	.83
Exons	153..308, 1113..1196		

Seq. No.	54343	Seq. ID	OJ000102_56.0426.C11
Gene No.	113974	Strand	-
Start	1	End	703
Name	OJ000102_56.0426.C11.o1.np	Method	AAT/NAP
Start	1	End	703
GI	7487874	Score	285
Exons	1..33, 477..703		
GI Descrip.	hypothetical protein T9I4.16 - Arabidopsis thaliana gi|3461848|gb|AAC33234.1| (AC005315) putative AAA-type ATPase [Arabidopsis thaliana]		

Seq. No.	54343	Seq. ID	OJ000102_56.0426.C11
Gene No.	113974	Strand	-
Start	1	End	703
Name	OJ000102_56.0426.C11.o1.ts	Method	TBLASTX:Soybean
Start	463	End	703
GI	none	Score	87
Exons	463..585, 486..563, 557..703, 558..701		

Seq. No.	54343	Seq. ID	OJ000102_56.0426.C11
Gene No.	113974	Strand	-
Start	1	End	703
Name	OJ000102_56.0426.C11.o1.tc	Method	TBLASTX:Cress
Start	486	End	703
GI	none	Score	105
Exons	486..563, 487..585, 492..644, 560..703, 561..701		

Seq. No.	54343	Seq. ID	OJ000102_56.0426.C11
Gene No.	113974	Strand	-
Start	1	End	703
Name	OJ000102_56.0426.C11.o1.tm	Method	TBLASTX:Maize
Start	486	End	703
GI	none	Score	107
Exons	486..554, 487..552, 555..701, 557..703, 558..701, 562..702		

Seq. No.	54344	Seq. ID	OJ000102_56.0426.C13
Gene No.	113975	Strand	-
Start	668	End	1231
Name	OJ000102_56.0426.C13.o1.gp	Method	AAT/GAP
Start	370	End	1231
GI	838_1.R1084	Score	1487
Exons	370..718, 824..1231		
GI Descrip.	'2920654/gb|AAC04576.1| 0.0e+00 (AF047697) putative high-pI laccase [Oryza sativa]'		

Seq. No.	54344	Seq. ID	OJ000102_56.0426.C13
Gene No.	113975	Strand	-
Start	668	End	1231
Name	OJ000102_56.0426.C13.o1.tm	Method	TBLASTX:Maize
Start	588	End	1231
GI	none	Score	147
Exons	588..719, 594..713, 811..858, 822..857, 827..862, 854..1084, 863..1231, 864..1226, 1160..1228		

Seq. No.	54344	Seq. ID	OJ000102_56.0426.C13
Gene No.	113975	Strand	-
Start	668	End	1231
Name	OJ000102_56.0426.C13.o1.np	Method	AAT/NAP
Start	591	End	1231
GI	7432996	Score	926
Exons	591..718, 824..1231		
GI Descrip.	probable laccase (EC 1.10.3.2) - rice (fragment) gi|2920654|gb|AAC04576.1| (AF047697) putative high-pI laccase [Oryza sativa]		

Seq. No.	54344	Seq. ID	OJ000102_56.0426.C13
Gene No.	113975	Strand	-
Start	668	End	1231
Name	OJ000102_56.0426.C13.o1.tc	Method	TBLASTX:Cress
Start	594	End	1183
GI	none	Score	63
Exons	594..716, 624..716, 643..717, 893..976, 894..983, 932..1183, 942..1175		

Seq. No.	54344	Seq. ID	OJ000102_56.0426.C13
Gene No.	113975	Strand	-
Start	668	End	1231
Name	OJ000102_56.0426.C13.o1.ts	Method	TBLASTX:Soybean
Start	658	End	1231
GI	none	Score	77
Exons	658..717, 658..714, 660..716, 825..857, 863..1198, 864..1175, 1202..1231		

Seq. No.	54344	Seq. ID	OJ000102_56.0426.C13
Gene No.	113975	Strand	-
Start	668	End	1231
Name	OJ000102_56.0426.C13.o1.gs	Method	GENSCAN
Start	668	End	1231
GI	none	Score	.94
Exons	668..718, 824..1231		

Seq. No.	54345	Seq. ID	OJ000102_56.0426.C14
Gene No.	113976	Strand	-
Start	386	End	1008
Name	OJ000102_56.0426.C14.o1.gs	Method	GENSCAN
Start	386	End	1008
GI	none	Score	.57
Exons	386..488, 904..1008		

Seq. No.	54346	Seq. ID	OJ000102_56.0426.C15
Gene No.	113977	Strand	+
Start	1	End	389
Name	OJ000102_56.0426.C15.o1.np	Method	AAT/NAP
Start	1	End	186
GI	1621461	Score	179
Exons	1..186		
GI Descrip.	(U73103) laccase [Liriodendron tulipifera]		

Seq. No.	54346	Seq. ID	OJ000102_56.0426.C15
Gene No.	113977	Strand	+
Start	1	End	389

Name	OJ000102_56.0426.C15.o1.tm	Method	TBLASTX:Maize
Start	28	End	389
GI	none	Score	189
Exons	28..159, 59..157, 64..183, 95..196, 136..189, 256..294, 315..389		

Seq. No.	54346	Seq. ID	OJ000102_56.0426.C15
Gene No.	113977	Strand	+
Start	1	End	389
Name	OJ000102_56.0426.C15.o1.ts	Method	TBLASTX:Soybean
Start	58	End	228
GI	4396263	Score	168
Exons	58..228, 59..157, 160..189		
GI Descrip.	1621461 9.0e-20 (U73103) laccase [Liriodendron tulipifera]		

Seq. No.	54346	Seq. ID	OJ000102_56.0426.C15
Gene No.	113977	Strand	+
Start	1	End	389
Name	OJ000102_56.0426.C15.o1.gs	Method	GENSCAN
Start	60	End	196
GI	none	Score	.79
Exons	60..196		

Seq. No.	54347	Seq. ID	OJ000102_56.0426.C16
Gene No.	113978	Strand	+
Start	1	End	1075
Name	OJ000102_56.0426.C16.o1.np	Method	AAT/NAP
Start	1	End	430
GI	7489474	Score	251
Exons	1..256, 381..430		
GI Descrip.	FIERG2 protein - rice gi|2920839|gb|AAC04628.1| (U95136) Os-FIERG2 gene product [Oryza sativa]		

Seq. No.	54347	Seq. ID	OJ000102_56.0426.C16
Gene No.	113978	Strand	+
Start	1	End	1075
Name	OJ000102_56.0426.C16.o1.gp	Method	AAT/GAP
Start	116	End	660
GI	1046_1.R1084	Score	764
Exons	116..256, 381..660		
GI Descrip.	'2920837 4.0e-89 (U95135) Os-FIERG1 gene product [Oryza sativa]'		

Seq. No.	54347	Seq. ID	OJ000102_56.0426.C16
Gene No.	113978	Strand	+
Start	1	End	1075
Name	OJ000102_56.0426.C16.o1.gs	Method	GENSCAN
Start	116	End	1075
GI	none	Score	.51
Exons	116..256, 958..1075		

Seq. No.	54348	Seq. ID	OJ000102_56.0426.C21
Gene No.	113979	Strand	+
Start	555	End	826
Name	OJ000102_56.0426.C21.o1.tm	Method	TBLASTX:Maize
Start	554	End	725
GI	none	Score	158
Exons	554..661, 555..653, 665..718, 666..725		

Seq. No.	54348	Seq. ID	OJ000102_56.0426.C21
Gene No.	113979	Strand	+
Start	555	End	826
Name	OJ000102_56.0426.C21.o1.gp	Method	AAT/GAP
Start	555	End	826
GI	13605_1.R1084	Score	479
Exons	555..826		
GI Descrip.	'3873647/emb|CAA94868.1| 2.0e-21 (Z71177) Similarity with 39.2kd yeast protein (Swiss Prot accession number P42836) [Caenorhabditis elegans]'		

Seq. No.	54348	Seq. ID	OJ000102_56.0426.C21
Gene No.	113979	Strand	+
Start	555	End	826
Name	OJ000102_56.0426.C21.o1.np	Method	AAT/NAP
Start	555	End	668
GI	6478924	Score	77
Exons	555..668		
GI Descrip.	(AC011436) unknown protein [Arabidopsis thaliana]		

Seq. No.	54349	Seq. ID	OJ000102_56.0426.C31
Gene No.	113980	Strand	-
Start	656	End	795
Name	OJ000102_56.0426.C31.o1.gs	Method	GENSCAN
Start	656	End	795
GI	none	Score	.49
Exons	656..795		

Seq. No.	54350	Seq. ID	OJ000102_56.0426.C32
Gene No.	113981	Strand	-
Start	409	End	482
Name	OJ000102_56.0426.C32.o1.gs	Method	GENSCAN
Start	409	End	482
GI	none	Score	.75
Exons	409..482		

Seq. No.	54351	Seq. ID	OJ000102_56.0426.C34
Gene No.	113982	Strand	+
Start	1	End	702
Name	OJ000102_56.0426.C34.o1.np	Method	AAT/NAP
Start	1	End	702
GI	6907086	Score	512
Exons	1..329, 390..702		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	54351	Seq. ID	OJ000102_56.0426.C34
Gene No.	113982	Strand	+
Start	1	End	702
Name	OJ000102_56.0426.C34.o1.gs	Method	GENSCAN
Start	4	End	298
GI	none	Score	.78
Exons	4..115, 138..298		

Seq. No.	54352	Seq. ID	OJ000102_56.0426.C38
Gene No.	113983	Strand	+
Start	1016	End	1722
Name	OJ000102_56.0426.C38.o1.np	Method	AAT/NAP

Start	1016	End	1722
GI	7339719	Score	66
Exons	1016..1139, 1300..1408, 1435..1576, 1663..1722		
GI Descrip.	(AP001539) hypothetical protein [Oryza sativa]		

Seq. No.	54353	Seq. ID	OJ000102_56.0426.C40
Gene No.	113984	Strand	+
Start	141	End	412
Name	OJ000102_56.0426.C40.o1.gs	Method	GENSCAN
Start	141	End	412
GI	none	Score	.63
Exons	141..234, 282..412		

Seq. No.	54354	Seq. ID	OJ000102_56.0426.C41
Gene No.	113985	Strand	+
Start	62	End	475
Name	OJ000102_56.0426.C41.o1.gs	Method	GENSCAN
Start	62	End	475
GI	none	Score	.97
Exons	62..475		

Seq. No.	54355	Seq. ID	OJ000102_56.0426.C43
Gene No.	113986	Strand	+
Start	277	End	893
Name	OJ000102_56.0426.C43.o1.gs	Method	GENSCAN
Start	277	End	893
GI	none	Score	.63
Exons	277..454, 646..893		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113987	Strand	+
Start	1	End	2411
Name	OJ000102_56.0426.C45.o1.np	Method	AAT/NAP
Start	1	End	1442
GI	6850889	Score	273
Exons	1..53, 398..425, 523..734, 1044..1442		
GI Descrip.	(AL137898) putative protein [Arabidopsis thaliana]		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113987	Strand	+
Start	1	End	2411
Name	OJ000102_56.0426.C45.o1.gp	Method	AAT/GAP
Start	388	End	1229
GI	69545_1.R1084	Score	819
Exons	388..460, 540..734, 1044..1229		
GI Descrip.	'4115379 4.0e-14 (AC005967) putative carbonyl reductase [Arabidopsis thaliana]'		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113987	Strand	+
Start	1	End	2411
Name	OJ000102_56.0426.C45.o1.gs	Method	GENSCAN
Start	398	End	2411
GI	none	Score	.41
Exons	398..460, 540..734, 1044..1303, 1827..2008, 2266..2411		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45

Gene No.	113988	Strand	+
Start	6203	End	7667
Name	OJ000102_56.0426.C45.o3.np	Method	AAT/NAP
Start	6203	End	7667
GI	5731257	Score	191
Exons	6203..6233, 7479..7667		
GI Descrip.	(AF165924) auxin-induced basic helix-loop-helix transcription factor [Gossypium hirsutum]		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113989	Strand	+
Start	22434	End	29168
Name	OJ000102_56.0426.C45.o4.gs	Method	GENSCAN
Start	22434	End	29168
GI	none	Score	.49
Exons	22434..22620, 22625..23148, 23694..23978, 24370..24647, 24929..25103, 25409..25576, 25638..25719, 26453..26578, 26720..26744, 26966..27642, 28728..28871, 28996..29168		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113989	Strand	+
Start	22434	End	29168
Name	OJ000102_56.0426.C45.o5.gp	Method	AAT/GAP
Start	24853	End	27043
GI	30629_1.R1084	Score	851
Exons	24853..25103, 25447..25576, 26966..27043		
GI Descrip.	'2980794/emb|CAA18170.1| 3.0e-38 (AL022197) myb-like protein [Arabidopsis thaliana]'		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113989	Strand	+
Start	22434	End	29168
Name	OJ000102_56.0426.C45.o6.gp	Method	AAT/GAP
Start	27336	End	27938
GI	none	Score	1132
Exons	27336..27938		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113990	Strand	+
Start	31096	End	47852
Name	OJ000102_56.0426.C45.o5.gs	Method	GENSCAN
Start	31096	End	47852
GI	none	Score	.75
Exons	31096..31146, 31293..31492, 31988..32467, 32872..32932, 33981..34215, 34448..34686, 35856..36107, 36199..36379, 37020..37108, 37425..37498, 37637..37740, 38703..38774, 39924..40026, 40743..40977, 42805..43013, 43519..43648, 44426..45160, 46039..46129, 47590..47852		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113990	Strand	+
Start	31096	End	47852
Name	OJ000102_56.0426.C45.o5.np	Method	AAT/NAP
Start	32151	End	37660
GI	3775993	Score	1872
Exons	32151..32458, 32872..32932, 33981..34215, 34448..34686, 35856..36107, 36199..36379, 37020..37108, 37425..37498,		

	37585..37660		
GI Descrip.	(AJ010460) RNA helicase [Arabidopsis thaliana]		
Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113990	Strand	+
Start	31096	End	47852
Name	OJ000102_56.0426.C45.o7.gp	Method	AAT/GAP
Start	34638	End	36392
GI	LIB3433-060-P1-K1-H2	Score	883
Exons	34638..34686, 35856..36107, 36199..36392		
GI Descrip.	'1044915/emb|CAA61765| 1.0e-39 (X89605) ORF2, myb-leu sequence [Oryza sativa] >gi_1262381_emb_CAA65524_ (X96749) ORF2 [Oryza sativa]'		
Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113990	Strand	+
Start	31096	End	47852
Name	OJ000102_56.0426.C45.o8.gp	Method	AAT/GAP
Start	42401	End	43580
GI	1044913	Score	2284
Exons	42401..43580		
GI Descrip.	1044915/emb|CAA61765| 1.0e-39 (X89605) ORF2, myb-leu sequence [Oryza sativa] >gi_1262381_emb_CAA65524_ (X96749) ORF2 [Oryza sativa]		
Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113990	Strand	+
Start	31096	End	47852
Name	OJ000102_56.0426.C45.o6.np	Method	AAT/NAP
Start	42509	End	42628
GI	7489486	Score	197
Exons	42509..42628		
GI Descrip.	hypothetical protein 1 - rice gi|1044914|emb|CAA61764.1| (X89605) ORF1, leaderorf1 sequence [Oryza sativa] gi|1262380|emb|CAA65523.1| (X96749) ORF [Oryza sativa]		
Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113990	Strand	+
Start	31096	End	47852
Name	OJ000102_56.0426.C45.o7.np	Method	AAT/NAP
Start	42881	End	44602
GI	7489500	Score	707
Exons	42881..43013, 43521..43648, 44426..44602		
GI Descrip.	myb7 protein homolog - rice (fragment) gi|1262378|emb|CAA65526.1| (X96750) myb7 [Oryza sativa]		
Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113991	Strand	+
Start	51868	End	53580
Name	OJ000102_56.0426.C45.o6.gs	Method	GENSCAN
Start	51868	End	53580
GI	none	Score	.77
Exons	51868..52028, 52310..52425, 52571..52669, 52789..52881, 53322..53400, 53424..53580		
Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113992	Strand	+

Start	56446	End	60988
Name	OJ000102_56.0426.C45.o8.gs	Method	GENSCAN
Start	56446	End	60988
GI	none	Score	.74
Exons	56446..56580, 56687..56773, 59201..59262, 60892..60988		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113993	Strand	-
Start	1260	End	1721
Name	OJ000102_56.0426.C45.o2.gp	Method	AAT/GAP
Start	1260	End	1721
GI	64595_1.R1084	Score	880
Exons	1260..1721		
GI Descrip.	'6041757/gb|AC011806.1|AC011806 6.0e-13 Genomic Sequence For Oryza sativa Clone 10P20, Lemont Strain, Complete Sequence, complete sequence'		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113994	Strand	-
Start	4724	End	11693
Name	OJ000102_56.0426.C45.o3.gp	Method	AAT/GAP
Start	4646	End	5822
GI	uC-osf1cyp029a12b1	Score	1023
Exons	4646..4990, 5397..5486, 5601..5629, 5719..5822		
GI Descrip.	'3386614 2.0e-47 (AC004665) putative transcription factor SF3 [Arabidopsis thaliana]'		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113994	Strand	-
Start	4724	End	11693
Name	OJ000102_56.0426.C45.o2.np	Method	AAT/NAP
Start	4709	End	6059
GI	6850890	Score	622
Exons	4709..4990, 5397..5505, 5719..5818, 5922..6059		
GI Descrip.	(AL137898) LIM domain protein [Arabidopsis thaliana]		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113994	Strand	-
Start	4724	End	11693
Name	OJ000102_56.0426.C45.o2.gs	Method	GENSCAN
Start	4724	End	11693
GI	none	Score	.51
Exons	4724..4990, 5397..5486, 5601..5629, 5719..5818, 5922..6175, 6809..7150, 7300..7622, 7733..7854, 7965..8098, 8245..8609, 8797..8920, 9923..10134, 11302..11693		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113994	Strand	-
Start	4724	End	11693
Name	OJ000102_56.0426.C45.o4.np	Method	AAT/NAP
Start	11001	End	11405
GI	7489553	Score	570
Exons	11001..11405		
GI Descrip.	probable reverse transcriptase - rice (fragment) gi|2462640|emb|CAA73800.1| (Y13370) reverse transcriptase [Oryza sativa]		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113995	Strand	-
Start	45040	End	45387
Name	OJ000102_56.0426.C45.o9.gp	Method	AAT/GAP
Start	45040	End	45387
GI	3107643	Score	656
Exons	45040..45387		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113996	Strand	-
Start	54145	End	55755
Name	OJ000102_56.0426.C45.o7.gs	Method	GENSCAN
Start	54145	End	55708
GI	none	Score	.98
Exons	54145..54345, 54781..54862, 55043..55130, 55214..55285, 55540..55708		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113996	Strand	-
Start	54145	End	55755
Name	OJ000102_56.0426.C45.o8.np	Method	AAT/NAP
Start	54154	End	55755
GI	6850893	Score	339
Exons	54154..54345, 54781..54862, 55043..55130, 55214..55283, 55553..55755		
GI Descrip.	(AL137898) putative DNA-binding protein [Arabidopsis thaliana]		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113997	Strand	-
Start	62181	End	65104
Name	OJ000102_56.0426.C45.o10.gp	Method	AAT/GAP
Start	61912	End	62382
GI	LIB3434-010-P1-K1-G5	Score	890
Exons	61912..62382		
GI Descrip.	'2129953/pir||JC5229 3.0e-39 laccase (EC 1.10.3.2) - common tobacco >gi_1685087 (U43542) diphenol oxidase [Nicotiana tabacum]'		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113997	Strand	-
Start	62181	End	65104
Name	OJ000102_56.0426.C45.o9.np	Method	AAT/NAP
Start	62168	End	65104
GI	7486819	Score	635
Exons	62168..62489, 62977..63179, 63260..63308, 64426..64624, 65037..65104		
GI Descrip.	hypothetical protein M7J2.60 - Arabidopsis thaliana gi|2980793|emb|CAA18169.1| (AL022197) putative protein [Arabidopsis thaliana]		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113997	Strand	-
Start	62181	End	65104
Name	OJ000102_56.0426.C45.o9.gs	Method	GENSCAN
Start	62181	End	64569
GI	none	Score	.62
Exons	62181..62489, 62977..63179, 63260..63353, 64426..64569		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113998	Strand	-
Start	65372	End	66788
Name	OJ000102_56.0426.C45.o10.np	Method	AAT/NAP
Start	65372	End	66788
GI	6691203	Score	77
Exons	65372..65463, 66675..66788		
GI Descrip.	(AC007508) F1K23.7 [Arabidopsis thaliana]		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o4.ts	Method	TBLASTX:Soybean
Start	582	End	1442
GI	none	Score	111
Exons	582..737, 596..724, 1056..1211, 1194..1256, 1284..1442		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o6.tm	Method	TBLASTX:Maize
Start	1033	End	1436
GI	none	Score	121
Exons	1033..1173, 1053..1175, 1189..1242, 1191..1250, 1275..1358, 1278..1436		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o2.tm	Method	TBLASTX:Maize
Start	4712	End	6071
GI	none	Score	314
Exons	4712..5008, 4716..4988, 4826..5008, 4859..4972, 5394..5483, 5396..5509, 5398..5481, 5409..5468, 5599..5643, 5708..5824, 5711..5818, 5717..5824, 5718..5825, 5910..6059, 5923..6060, 5940..6053, 5947..6051, 6019..6063, 6045..6071		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o4.tw	Method	TBLASTX:Wheat
Start	4784	End	6063
GI	none	Score	71
Exons	4784..5008, 4827..4898, 4859..4966, 5394..5483, 5394..5483, 5395..5484, 5726..5824, 5742..5813, 5910..6059, 5923..6060, 5964..6062, 5965..6063		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o2.ts	Method	TBLASTX:Soybean
Start	4802	End	6057
GI	none	Score	102
Exons	4802..5008, 4845..4991, 5400..5471, 5693..5824, 5730..5825, 5910..6056, 5911..6057		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o3.tc	Method	TBLASTX:Cress
Start	4808	End	6057
GI	none	Score	73
Exons	4808..5008, 4845..4982, 5400..5459, 5660..5824, 5730..5825, 5910..6056, 5926..6057		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o5.ts	Method	TBLASTX:Soybean
Start	7456	End	7911
GI	none	Score	83
Exons	7456..7521, 7458..7529, 7526..7663, 7527..7664, 7729..7749, 7801..7911, 7845..7895		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o5.tc	Method	TBLASTX:Cress
Start	7477	End	7658
GI	none	Score	66
Exons	7477..7512, 7497..7640, 7526..7657, 7527..7658		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o7.tm	Method	TBLASTX:Maize
Start	7598	End	8106
GI	none	Score	83
Exons	7598..7663, 7599..7664, 7641..7697, 7690..7737, 7691..7726, 7741..7752, 7800..7859, 7801..7842, 7836..7940, 7837..7944, 7939..8106		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o8.tm	Method	TBLASTX:Maize
Start	10068	End	10438
GI	none	Score	41
Exons	10068..10133, 10083..10223, 10127..10189, 10193..10258, 10253..10438, 10260..10385		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o2.tw	Method	TBLASTX:Wheat
Start	10100	End	10462
GI	none	Score	169
Exons	10100..10462, 10107..10424		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o3.tm	Method	TBLASTX:Maize

Start	10449	End	11369
GI	none	Score	84
Exons	10449..10577, 10590..10898, 10947..11369, 10948..11031		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o3.tw	Method	TBLASTX:Wheat
Start	12085	End	12466
GI	none	Score	138
Exons	12085..12411, 12143..12466, 12327..12437		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o5.tm	Method	TBLASTX:Maize
Start	24955	End	43651
GI	none	Score	271
Exons	24955..25026, 24956..25105, 25047..25181, 25442..25603, 25443..25604, 26963..27004, 26964..27005, 42905..43015, 43514..43642, 43515..43649, 43517..43651		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o5.tw	Method	TBLASTX:Wheat
Start	25007	End	43649
GI	none	Score	94
Exons	25007..25105, 25442..25576, 25443..25577, 42880..42966, 42880..43014, 42893..43015, 43511..43642, 43515..43649		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o7.ts	Method	TBLASTX:Soybean
Start	25007	End	44495
GI	none	Score	120
Exons	25007..25105, 25442..25579, 25443..25604, 26964..27035, 42880..43014, 42893..43015, 43512..43649, 43514..43606, 44423..44494, 44424..44495		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o6.tc	Method	TBLASTX:Cress
Start	25007	End	44528
GI	none	Score	113
Exons	25007..25105, 25436..25579, 25443..25604, 26963..27010, 26964..27050, 26994..27044, 42880..43014, 42893..43039, 43514..43606, 43515..43649, 44423..44503, 44424..44528		

Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o1.ts	Method	TBLASTX:Soybean
Start	32870	End	36384
GI	none	Score	102

Exons	32870..32932, 33975..34031, 33978..34034, 34035..34214, 34040..34174, 34042..34218, 34446..34685, 34447..34686, 34462..34686, 35832..36107, 35853..36140, 35855..36109, 36189..36377, 36196..36384		
Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o2.tc	Method	TBLASTX:Cress
Start	32870	End	35951
GI	none	Score	90
Exons	32870..32932, 32872..32934, 33960..34217, 33978..34232, 34449..34685, 34462..34686, 34490..34687, 35832..35942, 35838..35951, 35855..35950		
Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o1.tm	Method	TBLASTX:Maize
Start	34067	End	38769
GI	none	Score	193
Exons	34067..34213, 34074..34214, 34074..34214, 34084..34218, 34446..34685, 34462..34686, 35832..36107, 35853..36140, 35855..36109, 36185..36373, 36189..36377, 36196..36384, 37006..37128, 37021..37110, 37028..37129, 37424..37501, 37425..37502, 37426..37503, 37580..37684, 37585..37686, 37585..37671, 37691..37741, 37702..37749, 38614..38649, 38615..38653, 38719..38769, 38724..38768		
Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o1.tw	Method	TBLASTX:Wheat
Start	34609	End	37612
GI	none	Score	117
Exons	34609..34686, 34611..34685, 35853..36140, 35853..36101, 35855..36109, 36186..36377, 36189..36380, 36196..36384, 36224..36379, 36994..37110, 37012..37098, 37016..37120, 37028..37111, 37035..37115, 37425..37502, 37427..37501, 37580..37612, 37582..37611		
Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o1.tc	Method	TBLASTX:Cress
Start	35951	End	37665
GI	none	Score	248
Exons	35951..36109, 35952..36110, 36172..36384, 36183..36377, 37006..37110, 37028..37129, 37424..37501, 37425..37505, 37582..37665, 37586..37663		
Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o6.ts	Method	TBLASTX:Soybean
Start	37046	End	37668
GI	none	Score	113

Exons	37046..37129, 37048..37128, 37424..37501, 37425..37502, 37580..37663, 37585..37668		
Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o4.tm	Method	TBLASTX:Maize
Start	62008	End	64558
GI	none	Score	299
Exons	62008..62058, 62164..62490, 62181..62492, 62181..62495, 62972..63184, 62977..63180, 62978..63181, 62979..63182, 63258..63314, 63261..63308, 64336..64362, 64405..64491, 64423..64545, 64424..64558		
Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o4.tc	Method	TBLASTX:Cress
Start	62238	End	64488
GI	none	Score	54
Exons	62238..62327, 62274..62492, 62275..62490, 62281..62502, 62391..62495, 62977..63090, 62984..63130, 63101..63127, 63261..63308, 64423..64488		
Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o3.ts	Method	TBLASTX:Soybean
Start	62274	End	63174
GI	none	Score	205
Exons	62274..62495, 62275..62490, 62303..62491, 62972..63151, 62977..63174, 62977..63147		
Seq. No.	54356	Seq. ID	OJ000102_56.0426.C45
Gene No.	113999	Strand	-
Start	67758	End	69424
Name	OJ000102_56.0426.C45.o10.gs	Method	GENSCAN
Start	67758	End	69424
GI	none	Score	.68
Exons	67758..68656, 68992..69424		
Seq. No.	54357	Seq. ID	OJ000102_56.0426.C46
Gene No.	114000	Strand	-
Start	87	End	8039
Name	OJ000102_56.0426.C46.o1.gs	Method	GENSCAN
Start	87	End	8039
GI	none	Score	.78
Exons	87..1589, 1756..2493, 2872..3079, 3615..5569, 6028..6120, 6204..6260, 6349..6432, 6782..7213, 7887..8039		
Seq. No.	54357	Seq. ID	OJ000102_56.0426.C46
Gene No.	114000	Strand	-
Start	87	End	8039
Name	OJ000102_56.0426.C46.o1.tw	Method	TBLASTX:Wheat
Start	4784	End	5225
GI	none	Score	50
Exons	4784..4849, 4785..4847, 4792..4848, 4840..5154, 4841..5224,		

4842..5225

Seq. No.	54358	Seq. ID	OJ000102_56.0426.C48
Gene No.	114001	Strand	+
Start	1	End	4201
Name	OJ000102_56.0426.C48.o2.np	Method	AAT/NAP
Start	1	End	4201
GI	6522568	Score	1328
Exons	1..112, 1704..2091, 2502..2694, 2894..2958, 3037..3247, 3841..4201		
GI Descrip.	(AL132967) putative protein [Arabidopsis thaliana]		

Seq. No.	54358	Seq. ID	OJ000102_56.0426.C48
Gene No.	114001	Strand	+
Start	1	End	4201
Name	OJ000102_56.0426.C48.o1.gs	Method	GENSCAN
Start	7	End	374
GI	none	Score	.99
Exons	7..166, 370..374		

Seq. No.	54358	Seq. ID	OJ000102_56.0426.C48
Gene No.	114001	Strand	+
Start	1	End	4201
Name	OJ000102_56.0426.C48.o2.gs	Method	GENSCAN
Start	1781	End	4188
GI	none	Score	.73
Exons	1781..2091, 2502..2659, 3012..3247, 3958..4188		

Seq. No.	54358	Seq. ID	OJ000102_56.0426.C48
Gene No.	114002	Strand	-
Start	1	End	1936
Name	OJ000102_56.0426.C48.o1.np	Method	AAT/NAP
Start	1	End	1878
GI	5734621	Score	161
Exons	1..160, 1818..1878		
GI Descrip.	(AP000391) ESTs AU067992(C11433),AU077424(C11433) correspond to a region of the predicted gene.; Similar to ABC transporter-7 (U43892) [Oryza sativa]		

Seq. No.	54358	Seq. ID	OJ000102_56.0426.C48
Gene No.	114002	Strand	-
Start	1	End	1936
Name	OJ000102_56.0426.C48.o3.tm	Method	TBLASTX:Maize
Start	1556	End	1825
GI	none	Score	117
Exons	1556..1690, 1558..1662, 1691..1825, 1702..1812, 1736..1822		

Seq. No.	54358	Seq. ID	OJ000102_56.0426.C48
Gene No.	114002	Strand	-
Start	1	End	1936
Name	OJ000102_56.0426.C48.o2.ts	Method	TBLASTX:Soybean
Start	1667	End	1936
GI	none	Score	91
Exons	1667..1765, 1766..1936		

Seq. No.	54358	Seq. ID	OJ000102_56.0426.C48
Gene No.	114003	Strand	

Start	1880	End	2598
Name	OJ000102_56.0426.C48.o2.tm	Method	TBLASTX:Maize
Start	1880	End	2598
GI	none	Score	347
Exons	1880..2092, 1880..2092, 1882..2097, 2502..2597, 2502..2597, 2503..2598		

Seq. No.	54358	Seq. ID	OJ000102_56.0426.C48
Gene No.	114004	Strand	
Start	2584	End	4143
Name	OJ000102_56.0426.C48.o2.tc	Method	TBLASTX:Cress
Start	2584	End	3247
GI	none	Score	65
Exons	2584..2637, 2629..2694, 2888..2959, 2892..2969, 3030..3146, 3033..3176, 3034..3177, 3034..3186, 3035..3187, 3209..3247		

Seq. No.	54358	Seq. ID	OJ000102_56.0426.C48
Gene No.	114004	Strand	
Start	2584	End	4143
Name	OJ000102_56.0426.C48.o1.ts	Method	TBLASTX:Soybean
Start	3033	End	3251
GI	none	Score	306
Exons	3033..3140, 3034..3231, 3035..3250, 3195..3251		

Seq. No.	54358	Seq. ID	OJ000102_56.0426.C48
Gene No.	114004	Strand	
Start	2584	End	4143
Name	OJ000102_56.0426.C48.o1.tm	Method	TBLASTX:Maize
Start	3150	End	4092
GI	none	Score	146
Exons	3150..3251, 3152..3247, 3825..4082, 3837..4085, 3838..4086, 3838..4092		

Seq. No.	54358	Seq. ID	OJ000102_56.0426.C48
Gene No.	114004	Strand	
Start	2584	End	4143
Name	OJ000102_56.0426.C48.o1.tc	Method	TBLASTX:Cress
Start	3856	End	4143
GI	none	Score	304
Exons	3856..4143, 3861..4082		

Seq. No.	54359	Seq. ID	OJ000102_56.0426.C49
Gene No.	114005	Strand	+
Start	13309	End	13406
Name	OJ000102_56.0426.C49.o3.np	Method	AAT/NAP
Start	13309	End	13406
GI	5777617	Score	96
Exons	13309..13406		
GI Descrip.	(AJ245900) CAA30375.1 protein [Oryza sativa]		

Seq. No.	54359	Seq. ID	OJ000102_56.0426.C49
Gene No.	114006	Strand	-
Start	1453	End	14037
Name	OJ000102_56.0426.C49.o1.gs	Method	GENSCAN
Start	1453	End	14037
GI	none	Score	.56
Exons	1453..1743, 2234..2330, 2415..2623, 2962..3103, 4089..4144,		

5227..5312, 5442..5528, 9194..9275, 9365..9435, 9764..9951, 12783..12851, 13454..13578, 13643..13737, 13785..14037

Seq. No.	54359	Seq. ID	OJ000102_56.0426.C49
Gene No.	114006	Strand	-
Start	1453	End	14037
Name	OJ000102_56.0426.C49.o1.np	Method	AAT/NAP
Start	3055	End	4625
GI	6907088	Score	519
Exons	3055..3462, 4070..4312, 4488..4625		
GI Descrip.	(AP001129) hypothetical protein [Oryza sativa]		

Seq. No.	54359	Seq. ID	OJ000102_56.0426.C49
Gene No.	114006	Strand	-
Start	1453	End	14037
Name	OJ000102_56.0426.C49.o2.np	Method	AAT/NAP
Start	7356	End	9821
GI	6688926	Score	440
Exons	7356..7463, 7917..8092, 8793..8895, 8988..9103, 9194..9275, 9365..9435, 9764..9821		
GI Descrip.	(AJ251365) VAP27 [Nicotiana plumbaginifolia]		

Seq. No.	54359	Seq. ID	OJ000102_56.0426.C49
Gene No.	114006	Strand	-
Start	1453	End	14037
Name	OJ000102_56.0426.C49.o1.tm	Method	TBLASTX:Maize
Start	8623	End	10002
GI	none	Score	167
Exons	8623..8670, 8773..8895, 8968..9105, 8981..9100, 8982..9107, 9195..9290, 9198..9281, 9199..9291, 9362..9433, 9363..9434, 9765..9839, 9768..9821, 9943..10002		

Seq. No.	54359	Seq. ID	OJ000102_56.0426.C49
Gene No.	114006	Strand	-
Start	1453	End	14037
Name	OJ000102_56.0426.C49.o1.gp	Method	AAT/GAP
Start	8757	End	9882
GI	uC-osflcyp155b03b1	Score	874
Exons	8757..8895, 8988..9103, 9194..9275, 9365..9435, 9764..9882		
GI Descrip.	'4895238/gb|AAD32823.1|AC007659_5 1.0e-39 (AC007659) unknown protein [Arabidopsis thaliana]'		

Seq. No.	54359	Seq. ID	OJ000102_56.0426.C49
Gene No.	114006	Strand	-
Start	1453	End	14037
Name	OJ000102_56.0426.C49.o1.ts	Method	TBLASTX:Soybean
Start	8833	End	9434
GI	none	Score	111
Exons	8833..8904, 8980..9105, 8988..9107, 9195..9323, 9199..9276, 9362..9433, 9363..9434		

Seq. No.	54359	Seq. ID	OJ000102_56.0426.C49
Gene No.	114006	Strand	-
Start	1453	End	14037
Name	OJ000102_56.0426.C49.o1.tc	Method	TBLASTX:Cress
Start	8980	End	9434
GI	none	Score	95

Exons	8980..9108, 8988..9107, 9195..9323, 9196..9276, 9362..9433, 9363..9434		
Seq. No.	54360	Seq. ID	OJ000102_56.0426.C50
Gene No.	114007	Strand	-
Start	125	End	1991
Name	OJ000102_56.0426.C50.o1.gs	Method	GENSCAN
Start	125	End	1991
GI	none	Score	.51
Exons	125..280, 1761..1991		
Seq. No.	54360	Seq. ID	OJ000102_56.0426.C50
Gene No.	114008	Strand	-
Start	4346	End	5869
Name	OJ000102_56.0426.C50.o1.gp	Method	AAT/GAP
Start	3926	End	4133
GI	2798014	Score	391
Exons	3926..4133		
Seq. No.	54360	Seq. ID	OJ000102_56.0426.C50
Gene No.	114008	Strand	-
Start	4346	End	5869
Name	OJ000102_56.0426.C50.o2.gs	Method	GENSCAN
Start	4346	End	5394
GI	none	Score	.58
Exons	4346..4441, 4643..4714, 4798..4898, 4961..5088, 5218..5266, 5326..5394		
Seq. No.	54360	Seq. ID	OJ000102_56.0426.C50
Gene No.	114008	Strand	-
Start	4346	End	5869
Name	OJ000102_56.0426.C50.o1.np	Method	AAT/NAP
Start	4370	End	5869
GI	7486543	Score	195
Exons	4370..4537, 4672..4714, 5013..5088, 5218..5266, 5700..5869		
GI Descrip.	hypothetical protein F6N15.22 - Arabidopsis thaliana gi|3193331|gb|AAC19313.1| (AF069299) F6N15.22 gene product [Arabidopsis thaliana] gi|7267105|emb|CAB80776.1| (AL161471) putative YABBY3 axial regulator [Arabidopsis thaliana]		
Seq. No.	54361	Seq. ID	OJ000102_37.0426.C3
Gene No.	114009	Strand	+
Start	491	End	550
Name	OJ000102_37.0426.C3.o1.np	Method	AAT/NAP
Start	491	End	550
GI	2498930	Score	42
Exons	491..550		
GI Descrip.	DORSAL-VENTRAL PATTERNING PROTEIN SOG (SHORT GASTRULATION PROTEIN) gi|1203794 (U18774) Sog [Drosophila melanogaster]		
Seq. No.	54362	Seq. ID	OJ000102_37.0426.C4
Gene No.	114011	Strand	+
Start	141	End	904
Name	OJ000102_37.0426.C4.o1.gs	Method	GENSCAN
Start	141	End	904
GI	none	Score	.7
Exons	141..442, 471..596, 625..750, 779..904		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114012	Strand	+
Start	1	End	10921
Name	OJ000102_37.0426.C5.o2.np	Method	AAT/NAP
Start	1	End	10921
GI	6691191	Score	1103
Exons	1..143, 711..787, 2254..3523, 9495..9536, 10529..10921		
GI Descrip.	(AC007534) F7F22.15 [Arabidopsis thaliana]		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114012	Strand	+
Start	1	End	10921
Name	OJ000102_37.0426.C5.o1.np	Method	AAT/NAP
Start	557	End	1930
GI	5852181	Score	103
Exons	557..709, 1183..1304, 1801..1930		
GI Descrip.	(AL117265) zhb0011.1 [Oryza sativa]		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114012	Strand	+
Start	1	End	10921
Name	OJ000102_37.0426.C5.o2.gs	Method	GENSCAN
Start	2659	End	5171
GI	none	Score	.64
Exons	2659..3152, 4204..4323, 4371..4504, 4628..4833, 4908..5022, 5044..5171		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114012	Strand	+
Start	1	End	10921
Name	OJ000102_37.0426.C5.o3.gs	Method	GENSCAN
Start	7983	End	8521
GI	none	Score	.72
Exons	7983..8081, 8369..8521		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114012	Strand	+
Start	1	End	10921
Name	OJ000102_37.0426.C5.o4.gs	Method	GENSCAN
Start	10547	End	10819
GI	none	Score	.45
Exons	10547..10819		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114013	Strand	+
Start	12264	End	13322
Name	OJ000102_37.0426.C5.o5.gs	Method	GENSCAN
Start	12264	End	13322
GI	none	Score	.87
Exons	12264..12339, 12471..12591, 13031..13127, 13236..13322		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o1.ts	Method	TBLASTX:Soybean
Start	701	End	16352

GI	none	Score	70
Exons	701..784, 15958..16206, 15959..16198, 16152..16316, 16199..16309, 16320..16352		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o6.tw	Method	TBLASTX:Wheat
Start	713	End	16244
GI	none	Score	72
Exons	713..784, 2248..2370, 15950..16198, 15950..16096, 15958..16206, 16152..16244		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o3.ts	Method	TBLASTX:Soybean
Start	2244	End	15945
GI	none	Score	211
Exons	2244..2483, 2248..2484, 15811..15945		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o5.tm	Method	TBLASTX:Maize
Start	2281	End	16191
GI	none	Score	69
Exons	2281..2397, 15883..16191, 15890..16132		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o2.tm	Method	TBLASTX:Maize
Start	2398	End	15871
GI	none	Score	142
Exons	2398..2601, 15508..15816, 15517..15870, 15617..15871		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o2.tw	Method	TBLASTX:Wheat
Start	2425	End	15942
GI	none	Score	104
Exons	2425..2598, 15439..15942, 15521..15925		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o1.tc	Method	TBLASTX:Cress
Start	2662	End	3036
GI	none	Score	47
Exons	2662..2715, 2737..2961, 2782..2958, 2962..3036		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o3.tw	Method	TBLASTX:Wheat

Start	2860	End	15438
GI	none	Score	60
Exons	2860..3003, 14950..15438, 14951..15385, 14953..15396		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o4.ts	Method	TBLASTX:Soybean
Start	3031	End	14886
GI	none	Score	201
Exons	3031..3339, 3057..3287, 14722..14886		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o1.tw	Method	TBLASTX:Wheat
Start	3296	End	14943
GI	none	Score	120
Exons	3296..3520, 14317..14943, 14318..14887		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o1.tm	Method	TBLASTX:Maize
Start	3341	End	14763
GI	none	Score	87
Exons	3341..3475, 3488..3520, 14179..14604, 14189..14602, 14602..14763, 14607..14747, 14609..14755		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o5.ts	Method	TBLASTX:Soybean
Start	3383	End	14658
GI	none	Score	142
Exons	3383..3526, 3385..3522, 10529..10735, 10745..10810, 10830..10865, 14542..14658		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o6.gs	Method	GENSCAN
Start	13936	End	14772
GI	none	Score	.59
Exons	13936..14772		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o3.np	Method	AAT/NAP
Start	13939	End	16900
GI	4680179	Score	4061
Exons	13939..16900		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-

Start	13936	End	16904
Name	OJ000102_37.0426.C5.o5.tw	Method	TBLASTX:Wheat
Start	13984	End	14317
GI	none	Score	119
Exons	13984..14316, 14048..14317		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o3.tm	Method	TBLASTX:Maize
Start	14812	End	15103
GI	none	Score	250
Exons	14812..15102, 14816..15103		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o2.ts	Method	TBLASTX:Soybean
Start	14902	End	15138
GI	none	Score	148
Exons	14902..15138, 14903..15130		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o7.gs	Method	GENSCAN
Start	15466	End	16904
GI	none	Score	.75
Exons	15466..15951, 15967..16166, 16196..16904		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o4.tm	Method	TBLASTX:Maize
Start	16239	End	16710
GI	none	Score	117
Exons	16239..16670, 16273..16710		

Seq. No.	54363	Seq. ID	OJ000102_37.0426.C5
Gene No.	114014	Strand	-
Start	13936	End	16904
Name	OJ000102_37.0426.C5.o4.tw	Method	TBLASTX:Wheat
Start	16293	End	16779
GI	none	Score	272
Exons	16293..16670, 16336..16779		

Seq. No.	54364	Seq. ID	OJ000102_37.0426.C6
Gene No.	114015	Strand	+
Start	1	End	1980
Name	OJ000102_37.0426.C6.o1.np	Method	AAT/NAP
Start	1	End	1980
GI	6705984	Score	419
Exons	1..22, 342..854, 1900..1980		
GI Descrip.	(AB033235) gag-pol polyprotein [Oryza sativa]		

Seq. No.	54364	Seq. ID	OJ000102_37.0426.C6
Gene No.	114015	Strand	+

Start	1	End	1980
Name	OJ000102_37.0426.C6.o1.gs	Method	GENSCAN
Start	89	End	1084
GI	none	Score	.64
Exons	89..174, 303..344, 372..1084		

Seq. No.	54364	Seq. ID	OJ000102_37.0426.C6
Gene No.	114015	Strand	+
Start	1	End	1980
Name	OJ000102_37.0426.C6.o1.tw	Method	TBLASTX:Wheat
Start	347	End	787
GI	none	Score	257
Exons	347..616, 368..622, 394..621, 621..707, 635..787, 646..783		

Seq. No.	54364	Seq. ID	OJ000102_37.0426.C6
Gene No.	114015	Strand	+
Start	1	End	1980
Name	OJ000102_37.0426.C6.o1.ts	Method	TBLASTX:Soybean
Start	398	End	817
GI	none	Score	166
Exons	398..667, 433..663, 455..667, 659..817, 676..780		

Seq. No.	54364	Seq. ID	OJ000102_37.0426.C6
Gene No.	114015	Strand	+
Start	1	End	1980
Name	OJ000102_37.0426.C6.o1.tm	Method	TBLASTX:Maize
Start	586	End	838
GI	none	Score	182
Exons	586..720, 587..820, 614..838		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114016	Strand	+
Start	3369	End	12640
Name	OJ000102_37.0426.C7.o5.np	Method	AAT/NAP
Start	3369	End	8637
GI	6498436	Score	102
Exons	3369..3398, 8222..8251, 8518..8637		
GI Descrip.	(AP000815) hypothetical protein [Oryza sativa]		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114016	Strand	+
Start	3369	End	12640
Name	OJ000102_37.0426.C7.o3.np	Method	AAT/NAP
Start	5169	End	5589
GI	4680185	Score	119
Exons	5169..5589		
GI Descrip.	(AF111709) unknown [Oryza sativa subsp. indica]		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114016	Strand	+
Start	3369	End	12640
Name	OJ000102_37.0426.C7.o6.np	Method	AAT/NAP
Start	8231	End	12640
GI	7406450	Score	69
Exons	8231..8320, 11421..11571, 12498..12640		
GI Descrip.	(AL162875) putative protein [Arabidopsis thaliana]		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114017	Strand	-
Start	1	End	2275
Name	OJ000102_37.0426.C7.o1.np	Method	AAT/NAP
Start	1	End	2275
GI	4680179	Score	1135
Exons	1..31, 688..1185, 1240..2275		
GI Descrip.	(AF111709) polyprotein [Oryza sativa subsp. indica]		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114018	Strand	-
Start	4473	End	7463
Name	OJ000102_37.0426.C7.o4.np	Method	AAT/NAP
Start	4473	End	7463
GI	6573736	Score	89
Exons	4473..4515, 6356..6402, 6441..6618, 7383..7463		
GI Descrip.	(AC009398) F20B24.10 [Arabidopsis thaliana]		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114019	Strand	-
Start	9496	End	10179
Name	OJ000102_37.0426.C7.o1.gp	Method	AAT/GAP
Start	9496	End	10179
GI	3763508	Score	1111
Exons	9496..10061, 10135..10179		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114020	Strand	-
Start	11819	End	15785
Name	OJ000102_37.0426.C7.o2.tw	Method	TBLASTX:Wheat
Start	752	End	1106
GI	none	Score	126
Exons	752..1105, 804..1106		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114020	Strand	-
Start	11819	End	15785
Name	OJ000102_37.0426.C7.o1.tw	Method	TBLASTX:Wheat
Start	1454	End	1805
GI	none	Score	76
Exons	1454..1801, 1607..1774, 1641..1805		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114020	Strand	-
Start	11819	End	15785
Name	OJ000102_37.0426.C7.o4.tm	Method	TBLASTX:Maize
Start	1496	End	1801
GI	none	Score	80
Exons	1496..1801, 1641..1784		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114020	Strand	-
Start	11819	End	15785
Name	OJ000102_37.0426.C7.o3.tw	Method	TBLASTX:Wheat
Start	1824	End	2050
GI	none	Score	130
Exons	1824..2024, 1826..2035, 1838..2050		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114020	Strand	-
Start	11819	End	15785
Name	OJ000102_37.0426.C7.o2.gp	Method	AAT/GAP
Start	11819	End	13158
GI	none	Score	728
Exons	11819..11928, 12381..12453, 12546..12629, 12740..12777, 12944..13026, 13117..13158		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114020	Strand	-
Start	11819	End	15785
Name	OJ000102_37.0426.C7.o7.np	Method	AAT/NAP
Start	12909	End	15785
GI	7106515	Score	1749
Exons	12909..12959, 13741..15393, 15474..15785		
GI Descrip.	(AP001278) Similar to Arabidopsis thaliana chromosome II BAC T13P21 genomic sequence, putative helicase. (AC006067) [Oryza sativa]		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114020	Strand	-
Start	11819	End	15785
Name	OJ000102_37.0426.C7.o2.ts	Method	TBLASTX:Soybean
Start	13866	End	14048
GI	none	Score	105
Exons	13866..14048, 13873..14046		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114020	Strand	-
Start	11819	End	15785
Name	OJ000102_37.0426.C7.o2.tm	Method	TBLASTX:Maize
Start	13974	End	14312
GI	none	Score	41
Exons	13974..14048, 13975..14049, 14067..14312, 14098..14292		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114020	Strand	-
Start	11819	End	15785
Name	OJ000102_37.0426.C7.o1.tc	Method	TBLASTX:Cress
Start	14040	End	14285
GI	none	Score	104
Exons	14040..14285, 14041..14235		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114020	Strand	-
Start	11819	End	15785
Name	OJ000102_37.0426.C7.o1.ts	Method	TBLASTX:Soybean
Start	14118	End	14348
GI	none	Score	75
Exons	14118..14348, 14125..14220, 14274..14348		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114020	Strand	-
Start	11819	End	15785
Name	OJ000102_37.0426.C7.o1.tm	Method	TBLASTX:Maize

Start	14601	End	14969
GI	none	Score	103
Exons	14601..14969, 14775..14969		

Seq. No.	54365	Seq. ID	OJ000102_37.0426.C7
Gene No.	114020	Strand	-
Start	11819	End	15785
Name	OJ000102_37.0426.C7.o3.tm	Method	TBLASTX:Maize
Start	15114	End	15329
GI	none	Score	88
Exons	15114..15329, 15115..15255		

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114021	Strand	+
Start	3518	End	12529
Name	OJ000102_37.0426.C8.o2.gs	Method	GENSCAN
Start	3518	End	12529
GI	none	Score	.62
Exons	3518..3532, 3537..3632, 7386..7541, 7676..8069, 8137..8298, 12405..12529		

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114022	Strand	+
Start	12711	End	17102
Name	OJ000102_37.0426.C8.o5.np	Method	AAT/NAP
Start	12711	End	15962
GI	7487888	Score	216
Exons	12711..12764, 13916..14144, 14387..14722, 15781..15962		
GI Descrip.	hypothetical protein T9J22.30 - Arabidopsis thaliana gi|2739387|gb|AAC14510.1| (AC002505) En/Spm-like transposon protein [Arabidopsis thaliana]		

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114022	Strand	+
Start	12711	End	17102
Name	OJ000102_37.0426.C8.o3.gs	Method	GENSCAN
Start	14957	End	17102
GI	none	Score	.82
Exons	14957..15310, 15633..16299, 16684..16776, 17038..17102		

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114023	Strand	+
Start	17183	End	17464
Name	OJ000102_37.0426.C8.o1.gp	Method	AAT/GAP
Start	17183	End	17464
GI	none	Score	564
Exons	17183..17464		

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114024	Strand	-
Start	1	End	2042
Name	OJ000102_37.0426.C8.o1.np	Method	AAT/NAP
Start	1	End	2042
GI	7106515	Score	1570
Exons	1..200, 253..762, 864..2042		
GI Descrip.	(AP001278) Similar to Arabidopsis thaliana chromosome II BAC T13P21 genomic sequence, putative helicase. (AC006067) [Oryza		

sativa]

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114025	Strand	-
Start	8582	End	9917
Name	OJ000102_37.0426.C8.o2.np	Method	AAT/NAP
Start	8582	End	9917
GI	1171861	Score	680
Exons	8582..8687, 9493..9917		
GI Descrip.	NADH-PLASTOQUINONE OXIDOREDUCTASE SUBUNIT I (FRXB PROTEIN) gi|1363565|pir||S58619 NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain 1 - maize chloroplast gi|902288|emb|CAA60352| (X86563) NADH dehydrogenase subunit [Zea mays]		

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114026	Strand	-
Start	10015	End	12087
Name	OJ000102_37.0426.C8.o3.np	Method	AAT/NAP
Start	10015	End	12087
GI	128620	Score	1704
Exons	10015..10549, 11536..12087		
GI Descrip.	NADH-PLASTOQUINONE OXIDOREDUCTASE CHAIN 1, CHLOROPLAST gi|66139|pir||DERZN1 NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) chain 1 - rice chloroplast gi|669087|emb|CAA33910| (X15901) NADH dehydrogenase ND1 [Oryza sativa] gi|226676|prf||1603356DD NADH dehydrogenase ND1 [Oryza sativa]		

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114027	Strand	-
Start	12092	End	14273
Name	OJ000102_37.0426.C8.o4.np	Method	AAT/NAP
Start	12092	End	14273
GI	128833	Score	281
Exons	12092..12275, 14188..14273		
GI Descrip.	NADH-PLASTOQUINONE OXIDOREDUCTASE 49 KD SUBUNIT, CHLOROPLAST gi|100954|pir||S13600 NADH dehydrogenase (ubiquinone) (EC 1.6.5.3) 49K chain - maize chloroplast gi|14301|emb|CAA39868| (X56521) ndhH subunit of NADH dehydrogenase [Zea mays] gi|902290|emb|CAA60354| (X86563) NADH dehydrogenase 49KDa protein [Zea mays]		

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114028	Strand	-
Start	17410	End	29594
Name	OJ000102_37.0426.C8.o5.tm	Method	TBLASTX:Maize
Start	716	End	1085
GI	none	Score	45
Exons	716..796, 866..940, 877..939, 956..1081, 963..1085, 963..1085		

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114028	Strand	-
Start	17410	End	29594
Name	OJ000102_37.0426.C8.o1.tw	Method	TBLASTX:Wheat
Start	942	End	1264
GI	none	Score	111
Exons	942..1163, 965..1264		

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114028	Strand	-
Start	17410	End	29594
Name	OJ000102_37.0426.C8.o1.tm	Method	TBLASTX:Maize
Start	1088	End	1901
GI	none	Score	62
Exons	1088..1351, 1344..1472, 1420..1470, 1491..1805, 1498..1680, 1806..1829, 1830..1901		

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114028	Strand	-
Start	17410	End	29594
Name	OJ000102_37.0426.C8.o3.ts	Method	TBLASTX:Soybean
Start	9654	End	9922
GI	none	Score	253
Exons	9654..9908, 9655..9909, 9659..9922, 9670..9915		

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114028	Strand	-
Start	17410	End	29594
Name	OJ000102_37.0426.C8.o1.tc	Method	TBLASTX:Cress
Start	9820	End	12223
GI	none	Score	133
Exons	9820..9948, 9820..9939, 9822..9995, 10013..10213, 10016..10207, 10051..10248, 10205..10489, 10205..10489, 10207..10506, 10207..10506, 10480..10551, 10491..10550, 11518..11742, 11535..11957, 11536..11958, 11537..11959, 11538..11960, 12000..12101, 12002..12223, 12002..12223		

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114028	Strand	-
Start	17410	End	29594
Name	OJ000102_37.0426.C8.o2.ts	Method	TBLASTX:Soybean
Start	10010	End	11535
GI	none	Score	475
Exons	10010..10489, 10010..10489, 10033..10506, 10051..10506, 10480..10551, 10491..10643, 10493..10630, 10761..10796, 10798..10854, 10812..10850, 10900..10953, 11005..11088, 11011..11085, 11180..11248, 11182..11214, 11280..11312, 11282..11317, 11365..11427, 11366..11404, 11412..11462, 11413..11535		

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114028	Strand	-
Start	17410	End	29594
Name	OJ000102_37.0426.C8.o1.ts	Method	TBLASTX:Soybean
Start	11613	End	12271
GI	none	Score	375
Exons	11613..11969, 11615..11959, 11966..11998, 12004..12099, 12005..12271, 12033..12269		

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114028	Strand	-
Start	17410	End	29594
Name	OJ000102_37.0426.C8.o6.tm	Method	TBLASTX:Maize
Start	13987	End	14151
GI	none	Score	235

Exons	13987..14151, 13988..14149		
Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114028	Strand	-
Start	17410	End	29594
Name	OJ000102_37.0426.C8.o4.tm	Method	TBLASTX:Maize
Start	14377	End	14600
GI	none	Score	287
Exons	14377..14598, 14385..14600, 14386..14598		
Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114028	Strand	-
Start	17410	End	29594
Name	OJ000102_37.0426.C8.o5.ts	Method	TBLASTX:Soybean
Start	14386	End	14685
GI	none	Score	103
Exons	14386..14475, 14397..14465, 14490..14663, 14491..14685		
Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114028	Strand	-
Start	17410	End	29594
Name	OJ000102_37.0426.C8.o3.tm	Method	TBLASTX:Maize
Start	14716	End	16298
GI	none	Score	153
Exons	14716..14832, 14725..14832, 14957..15250, 14973..15251, 14973..15209, 15070..15246, 16233..16298		
Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114028	Strand	-
Start	17410	End	29594
Name	OJ000102_37.0426.C8.o2.tm	Method	TBLASTX:Maize
Start	17399	End	28509
GI	none	Score	64
Exons	17399..17455, 17404..17457, 23743..23829, 23745..23828, 23747..23830, 23747..23830, 23915..24013, 23915..23998, 23916..24014, 23917..24015, 23917..24018, 24029..24181, 24063..24188, 24071..24190, 24087..24188, 24091..24189, 28108..28302, 28110..28373, 28110..28508, 28333..28509		
Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114028	Strand	-
Start	17410	End	29594
Name	OJ000102_37.0426.C8.o4.ts	Method	TBLASTX:Soybean
Start	17407	End	24189
GI	none	Score	70
Exons	17407..17475, 23730..23786, 23747..23809, 23747..23830, 23908..24018, 23918..24013, 24087..24185, 24094..24189		
Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114028	Strand	-
Start	17410	End	29594
Name	OJ000102_37.0426.C8.o6.np	Method	AAT/NAP
Start	17410	End	29594
GI	5103813	Score	639
Exons	17410..17469, 23747..23827, 23917..24012, 24087..24186, 28108..28516, 29456..29594		
GI Descrip.	(AC007591) Contains a PF|00175 Oxidoreductase FAD/NADH-binding		

domain. ESTs gb|H76345 and gb|AA651465 come from this gene. [Arabidopsis thaliana]

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114028	Strand	-
Start	17410	End	29594
Name	OJ000102_37.0426.C8.o4.gs	Method	GENSCAN
Start	17448	End	28631
GI	none	Score	.48
Exons	17448..17469, 17575..17778, 17819..17958, 18009..18044, 18834..18974, 19177..19264, 20904..21101, 21244..21380, 21708..21812, 22526..22705, 23917..24012, 24087..24186, 28108..28631		

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114028	Strand	-
Start	17410	End	29594
Name	OJ000102_37.0426.C8.o2.tc	Method	TBLASTX:Cress
Start	28173	End	28512
GI	none	Score	95
Exons	28173..28307, 28173..28286, 28284..28337, 28296..28325, 28336..28446, 28344..28448, 28464..28511, 28465..28512		

Seq. No.	54366	Seq. ID	OJ000102_37.0426.C8
Gene No.	114028	Strand	-
Start	17410	End	29594
Name	OJ000102_37.0426.C8.o2.gp	Method	AAT/GAP
Start	28273	End	28680
GI	12066_1.R1084	Score	713
Exons	28273..28680		
GI Descrip.	'5103813/gb|AAD39643.1|AC007591_8 1.0e-16 (AC007591) Contains a PF_00175 Oxidoreductase FAD/NADH-binding domain. ESTs gb_H76345 and gb_AA651465 come from this gene. [Arabidopsis thaliana]'		

Seq. No.	54367	Seq. ID	OJ000102_37.0426.C9
Gene No.	114029	Strand	+
Start	467	End	724
Name	OJ000102_37.0426.C9.o1.gp	Method	AAT/GAP
Start	467	End	724
GI	61605_3.R1084	Score	446
Exons	467..724		
GI Descrip.	'1402920/emb|CAA66965| 2.0e-20 (X98321) peroxidase [Arabidopsis thaliana]'		

Seq. No.	54367	Seq. ID	OJ000102_37.0426.C9
Gene No.	114030	Strand	+
Start	1184	End	2528
Name	OJ000102_37.0426.C9.o2.gp	Method	AAT/GAP
Start	1184	End	1701
GI	uC-osf1M202048c12b1	Score	766
Exons	1184..1701		
GI Descrip.	'5257255/dbj|AP000364.1|AP000364 2.0e-16 Oryza sativa genomic DNA, chromosome 8, clone:P0026F07'		

Seq. No.	54367	Seq. ID	OJ000102_37.0426.C9
Gene No.	114030	Strand	+
Start	1184	End	2528